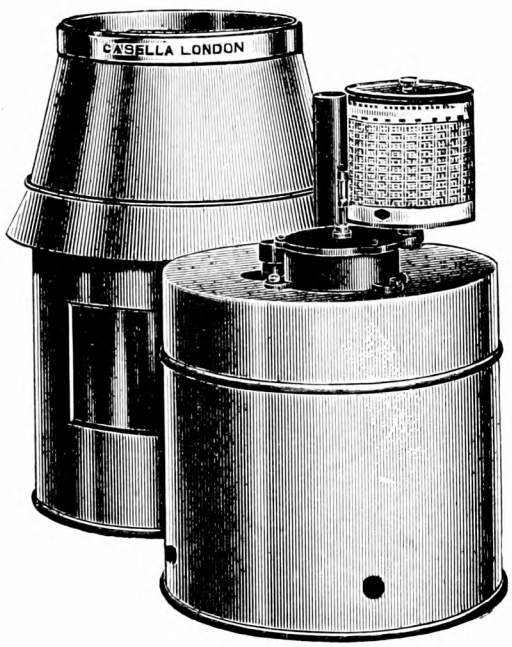
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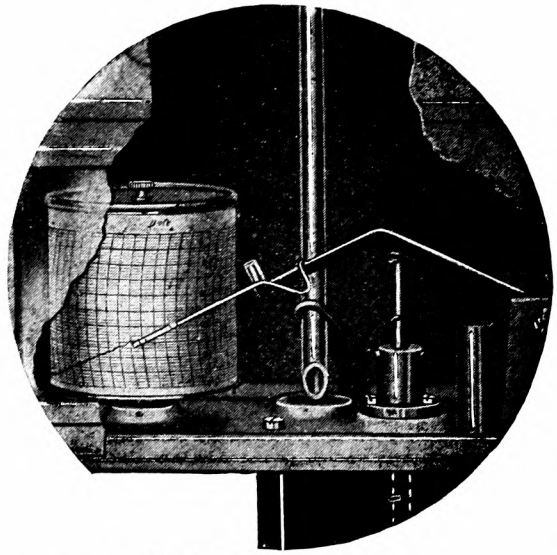
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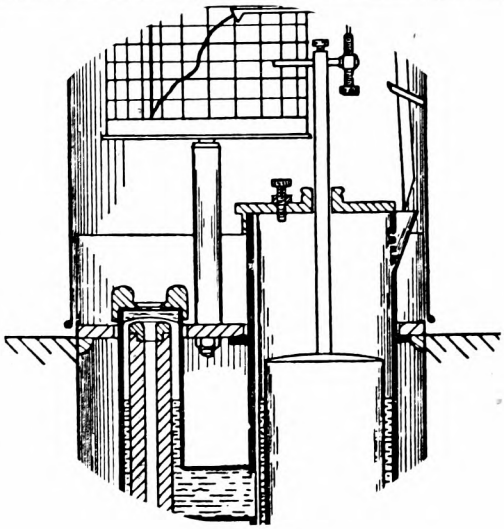
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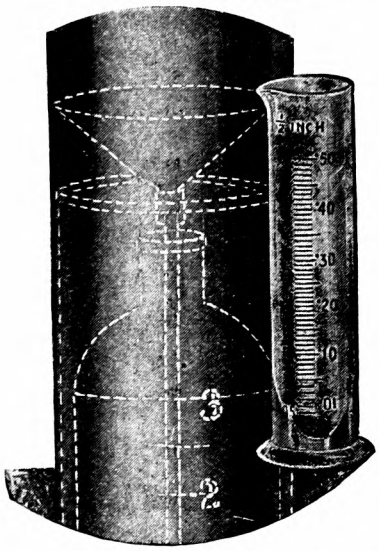
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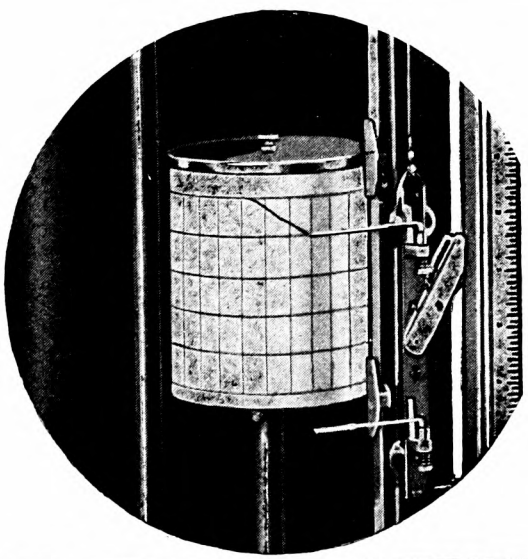
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BRITISH RAINFALL
1934



Photograph reproduced by courtesy of the *Daily Herald* from the issue of August 8th, 1934, showing RUDYARD LAKE, STAFFORDSHIRE, practically dried up.

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METEOROLOGICAL OFFICE

BRITISH RAINFALL

1934

THE SEVENTY-FOURTH ANNUAL VOLUME OF THE BRITISH RAINFALL ORGANIZATION.

Report on the

DISTRIBUTION OF RAIN

IN SPACE AND TIME OVER THE BRITISH ISLES DURING THE YEAR 1934 AS RECORDED BY OVER 5,000 OBSERVERS IN GREAT BRITAIN AND IRELAND

WITH MAPS AND ILLUSTRATIONS

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ERRATUM IN "BRITISH RAINFALL," 1933.

p. 216. *delete* Kentmere. J. Cropper & Co., and data relating thereto.

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BRITISH RAINFALL, 1934

PART I

THE WORK
OF THE
BRITISH RAINFALL ORGANIZATION

BRITISH RAINFALL, 1934.

PART I.

THE WORK OF THE BRITISH RAINFALL ORGANIZATION

THE STAFF OF OBSERVERS.

The detailed account of the rainfall of the year 1934 over the British Isles, which is presented in this volume, follows the lines of previous issues. The basis of the discussion is a collection of about 5,460 returns of rainfall measurements for the year received from all parts of the country. The measurements are generally made every day, but in inaccessible districts they may be made only once a week or even once a month. The Meteorological Office relies almost entirely on the returns contributed either by private persons, who measure the rainfall primarily as a matter of private interest, or by public local authorities, and especially the authorities of water undertakings, who find that a knowledge of the rainfall in their locality is indispensable to them in their work. These observers forward copies of their observations voluntarily for preservation by the British Rainfall Organization of the Meteorological Office as national records, and for use not only in the preparation of the annual volumes of *British Rainfall* but also for purposes of study and research. In this way records which are primarily of local interest acquire a national value which was not always realized by those who initiated them. To the numerous voluntary observers who forward their observations the Organization desires to acknowledge its indebtedness : it would be quite impossible to compile such an account as this without their assistance and goodwill.

In order to ensure, so far as possible, that the various records of rainfall summarized in the volume may be comparable with one another, the Organization issues to each observer and to anyone who is interested, a copy of a pamphlet entitled *Rules for Rainfall Observers*. This pamphlet was originally drawn up by the late Mr. G. J. Symons, F.R.S., founder of the Organization, and although it has been extensively revised since his time, yet the fundamental

rules laid down by him remain practically unaltered. A new edition was prepared and issued during 1934.

The total number of records printed in Part III of this volume is 5,461, an increase of 66 records over last year. As many as 307 additional records are included in the volume, while 241 records printed in *British Rainfall*, 1933, are no longer available. Details as to the numbers of records printed in earlier volumes are given in a separate table.

The number of records published for England is 53 more than last year and 17 more for Wales. Ireland remains the same and Scotland shows a loss of four records. The counties with the largest net gains during 1934 are Denbigh, Derbyshire, Hertfordshire, Norfolk, Surrey and Warwickshire with 8, 7, 7, 6, 6 and 6 more respectively. On the other hand there are 5 fewer stations in Glamorgan and 4 fewer in Cambridge, Westmorland and Perthshire.

Twelve additional records have been supplied by Mr. R. W. S. Thompson, Engineer to the Derwent Valley Water Board; six by Engineer to the Lee Conservancy Board; four in Cheshire by the Manchester Corporation W.W.; and three each by Mr. T. Dearden, Engineer to the Stockport W.W., Mr. J. A. Davies, Engineer to the Wrexham W.W. and the North Wales Power Co.

Records have been received from five stations from July onwards at isolated farms on the high land surrounding Lake Bala, by Capt. G. A. Wright, M.C., Engineer to the Dee Catchment Board. Arrangements were made during 1934 for the establishment of rain-gauges at Wasdale Head Hotel and at Gillerthwaite, at the head of Ennerdale, at the suggestion of Mr. Hough-Watson of Braystones. Additional stations at isolated points were also established on Masham Moor, on Keighley Moor and near Chewton Mendip in Somersetshire.

The smallest county in England, Rutlandshire, has the fewest records as well as the smallest number per 100 sq. mi. Pembroke and Carmarthen have the fewest stations in Wales. In Scotland, Ross and Cromarty, Caithness and the Shetland Islands have fewer than one station per 100 sq. mi. In Ireland most counties have fewer than one station per 100 sq. mi., Roscommon, Sligo and Leitrim each having only .3 station per 100 sq. mi.

Rainfall records for 1934 and for earlier years have been received in a number of cases, including those at Piltdown, in Sussex, since 1918 from Mr. A. C. Jeffery; Coniston (Holywath) since 1921 from Mrs. Hext; Allean near Pitlochry since 1926 from Sir Arthur N. C. Wood, Bt., and West Clandon and Chertsey (Abbey Meads) 1914 to 1926 from Mr. W. Fidkin, Engineer to the Woking Water Co.

Changes in County boundaries. As a result of the 1929 Local Government Act, the boundaries of all Counties in England are at present being reviewed for the purpose of straightening out anomalies and abolishing detached areas. While these adjustments are likely to be numerous for some while to come, they are not likely to involve the transference of many rainfall stations from one county to another. No additional changes are indicated in the General Table in this volume. No changes have yet been made in the areas for each river basin and each county given in the General Table, Part III.

For assistance in the collection of the rainfall returns for the year we are especially indebted to officials of various local organizations, among whom may be mentioned :—Mr. C. P. Sinclair, of the Hertfordshire Natural History Society and Field Club, Mr. R. H. Primavesi, of the Northamptonshire Natural History Society; Col. H. C. Copeman, of the Norfolk Rainfall Organization; the Librarian at the Barnstaple Athenæum; Mr. A. P. Jenkin, of the Cornwall Rainfall Association; Mr. A. J. Jenkins, of Jersey; Miss Cordelia Marshall, of Ambleside; Mr. W. Dunbar, of Kilmarnock; Mr. E. W. M. Murphy, of the Irish Rainfall Association and Mr. F. B. Goodman (Engineer to the Somerset Rivers Catchment Board) Secretary of the Mid-Wessex Rainfall Association.

CHECKING OF RECORDS.—Every record of rainfall which is published in Part III of this volume goes through a process of examination before it is included in the table. This consists in the plotting of the monthly and annual totals of rainfall and of the annual numbers of rain-days and wet-days on large scale maps, of which all except the map of rain-days are reproduced in the volume on much reduced scales. Some details of the procedure are set out in *British Rainfall*, 1930, p. xv. The practice has been developed during recent years of asking Engineers with a large number of rain-gauges under their control to forward copies of the readings monthly, so that the values can be plotted on the large scale maps and any apparent inconsistency investigated, while the weather is still within the recollection of the observer.

Another opportunity for critically examining the returns is afforded by the preparation of the Rainfall Survey. This examination is more exacting than that undertaken year by year, since the values are plotted on a map of a larger scale and since computed averages can be compared for stations in the same locality, which were not in operation at the same time. Much has been done in improving the accuracy of the future records by correspondence with those observers whose values have appeared inconsistent on the survey maps. In some cases gauges of standard patterns have been lent, and comparisons made with gauges which have been thought to be giving defective records.

British Rainfall, 1934, *compared with* 1933.
Number of Records Published.

	Gain.	Loss.	Difference.	Per cent. change in year.
England	231	178	+ 53	+1·4
Wales, etc.	33	16	+ 17	+3·5
Scotland	29	33	− 4	−0·5
Ireland	14	14	0	0·0
British Isles ..	307	241	+ 66	+1·2

Number of Rainfall Records Published in the Volumes of "British Rainfall" for the undermentioned Years.

Years.	England.	Wales, etc.	Scotland.	Ireland.	British Isles.	Change from previous year.	No. of Stations per 100 sq. mi.
1861 ..	333	9	109	20	471	+ 47	0·4
1871 ..	1038	88	311	67	1504	+ 5	1·2
1881 ..	1548	131	313	153	2145	+ 41	1·8
1891 ..	2091	168	359	181	2799	+ 23	2·3
1901 ..	2616	253	442	195	3506	+ 13	2·9
1911 ..	3705	397	701	271	5074	+198	4·2
1914 ..	3962	450	753	288	5453	+ 83	4·5
1919 ..	3419	436	766	277	4898	−101	4·1
1920 ..	3460	453	758	281	4952	+ 54	4·1
1921 ..	3577	446	784	271	5078	+126	4·2
1922 ..	3601	470	785	270	5126	+ 48	4·2
1923 ..	3406	442	754	262	4864	−262	4·0
1924 ..	3438	438	756	248	4880	+ 16	4·0
1925 ..	3437	439	750	259	4885	+ 5	4·0
1926 ..	3418	442	775	238	4873	− 12	4·0
1927 ..	3491	448	786	245	4970	+ 97	4·1
1928 ..	3585	441	791	251	5068	+ 98	4·2
1929 ..	3665	453	797	265	5180	+112	4·3
1930 ..	3765	455	834	262	5316	+136	4·4
1931 ..	3763	454	850	262	5329	+ 13	4·4
1932 ..	3798	474	860	251	5383	+ 54	4.5
1933 ..	3793	474	878	250	5395	+ 12	4·5
1934 ..	3846	491	874	250	5461	+ 66	4·5
Difference from 1933	+53	+17	−4	0	+66	..	0·0

County.	Records in 1933.	Records Lost.	Records Gained.	Records in 1934.	Records per 100 sq. mi. of area.
ENGLAND.					
London	53	4	2	51	44
Surrey	204	12	18	210	29
Kent	183	9	10	184	12
Sussex	174	15	13	172	12
Hampshire ..	175	12	11	174	11
Berkshire ..	66	1	5	70	10
Middlesex ..	58	4	7	61	26
Hertfordshire	83	3	10	90	14
Buckinghamshire	49	3	4	50	7
Oxfordshire ..	56	2	4	58	8
Northampton ..	66	3	3	66	7
Huntingdonshire	8	1	0	7	2
Bedfordshire ..	24	1	3	26	6
Cambridgeshire	41	4	0	37	4
Essex	102	6	5	101	7
Suffolk ..	69	3	1	67	4
Norfolk ..	85	3	9	91	4
Wiltshire ..	67	3	8	72	5
Dorsetshire ..	92	2	5	95	10
South Devon ..	187	11	8	184	11
North Devon ..	42	2	1	41	5
Cornwall ..	89	3	6	92	7
Somersetshire ..	166	7	9	168	10
Gloucestershire	96	1	3	98	8
Herefordshire	46	2	2	46	5
Shropshire ..	50	1	1	50	4
Staffordshire	71	2	2	71	6
Worcestershire	60	2	3	61	8
Warwickshire	51	0	6	57	6
Leicestershire	42	3	3	42	5
Rutlandshire ..	2	0	0	2	1·3
Lincolnshire ..	64	2	4	66	3
Nottinghamshire	57	1	2	58	7
Derbyshire ..	87	8	15	94	9
Cheshire ..	93	8	10	95	9
South Lancs. ..	125	7	8	126	18
Central Lancs. .	77	2	4	79	15
North Lancs. ..	49	1	4	52	8
Yorkshire, W.R.	327	13	16	330	12
Yorkshire, E.R.	27	1	0	26	2
Yorkshire, N.R.	92	2	1	91	4
Durham	54	1	2	55	5
Northumberland	43	2	2	43	2
Cumberland ..	60	1	1	60	4
Westmorland ..	81	4	0	77	10
MONMOUTH, WALES, ETC.					
Monmouth ..	34	0	0	34	6
Glamorgan ..	70	5	1	66	8
Carmarthen ..	15	0	3	18	1·8
Pembroke ..	13	1	2	14	2
Cardigan ..	19	1	2	20	3
Brecon	86	0	0	86	12
Radnor	26	1	0	25	5
Montgomery ..	24	0	1	25	3
Flint	20	0	1	21	8
Denbigh.. ..	41	2	10	49	7
Merioneth ..	26	3	4	27	4
Carnarvon ..	54	2	5	57	10
Anglesey ..	15	0	1	16	6
Isle of Man ..	7	0	0	7	3
Channel Islands	24	1	3	26	34
SCOTLAND.					
Wigtown ..	13	0	0	13	3
Kirkcudbright	28	3	1	26	3
Dumfries ..	18	0	0	18	1·7
Roxburgh ..	14	0	1	15	2
Selkirk ..	4	0	0	4	1·5
Peebles ..	13	1	1	13	4
Berwick ..	12	0	0	12	3
E. Lothian ..	13	3	1	11	4
Midlothian ..	38	1	0	37	10
W. Lothian ..	16	0	0	16	13
Lanark	53	2	1	52	6
Ayr	99	1	2	100	9
Renfrew ..	40	0	1	41	18
Dumbarton ..	28	1	1	28	10
Stirling.. ..	47	1	1	47	10
Bute	8	1	0	7	3
Argyll	61	2	4	63	2
Clackmannan ..	7	1	0	6	11
Kinross	4	0	2	6	8
Fife	36	2	0	34	7
Perth	72	6	2	68	3
Angus	41	0	2	43	5
Kincardine ..	11	0	1	12	3
Aberdeen ..	38	3	3	38	1·9
Banff	10	0	0	10	1·6
Moray	14	0	1	15	3
Nairn	8	0	0	8	5
Inverness ..	71	3	2	70	1·7
Ross & Cromarty	27	1	1	27	·8
Sutherland ..	7	0	1	8	·4
Caithness ..	10	0	0	10	1·4
Orkney	12	1	0	11	3
Shetland ..	5	0	0	5	·9
IRELAND.					
Cork	19	1	1	19	·7
Kerry	10	0	1	11	·6
Waterford ..	5	1	0	4	·6
Tipperary ..	11	1	0	10	·6
Limerick ..	9	0	0	9	·9
Clare	6	1	0	5	·4
Wexford ..	5	1	0	4	·4
Kilkenny ..	3	0	0	3	·4
Wicklow ..	9	0	0	9	1·2
Carlow	5	2	0	3	·9
Leix	3	0	0	3	·5
Offaly	8	1	0	7	·9
Kildare.. ..	4	0	1	5	·8
Dublin	26	1	1	26	7
Meath	6	0	2	8	·8
Westmeath ..	6	0	0	6	·8
Louth	3	1	1	3	·9
Longford ..	6	0	0	6	1·4
Galway	10	0	1	11	·5
Roscommon ..	3	0	0	3	·3
Mayo	10	2	0	8	·4
Sligo	2	0	0	2	·3
Leitrim	2	0	0	2	·3
Cavan	2	0	1	3	·4
Fermanagh ..	8	0	1	9	1·3
Monaghan ..	0	0	0	0	·0
Armagh	6	0	0	6	1·2
Down	16	0	1	17	1·8
Antrim	19	0	0	19	1·6
Londonderry ..	16	1	2	17	2
Tyrone	5	0	0	5	·4
Donegal ..	7	1	1	7	·4

In certain cases where a record has been found to be out of harmony with those from surrounding stations, and no explanation of the difficulty has been found after correspondence with the observer, the station has been inspected and the cause of the error ascertained.

AVERAGES PRINTED IN THE GENERAL TABLE OF BRITISH RAINFALL.—Since 1926 a column in the General Table has been devoted to the average annual rainfall at the various stations, and year by year additional values have been given. This information is supplied mainly by the Rainfall Survey which is being carried out for certain counties year by year. In the present volume additional averages are given for stations in Essex and Dumfries, while Mr. Cornish has supplied averages for Northamptonshire.

Since 1930 a distinction has been made in the type, according as the average quoted is (a) the mean of the 35 years 1881 to 1915 or has been weighted in this Office to give a computed mean for that period and (b) the mean of a period of 20 years, or more, but unweighted, or computed outside this Office. This column is gradually being completed.

INVESTIGATIONS.—Three articles are printed in Part IV of this volume. The first deals with the records of heavy falls on rainfall days available for the period 1865 to 1934 and grouped county by county. A separate list is given of all falls in excess of 7 inches.

The second article deals with the frequency of heavy rains lasting from 1 to 48 hours at Kew Observatory during the period 1878 to 1927. In the third article details are given of a new type of rain-gauge devised to register day and night falls separately.

INSPECTIONS.—Considerable progress was made during the year with the inspection of the stations included in the General Table. About 190 stations were inspected exclusive of Climatological stations and other stations reporting general meteorological observations. The stations inspected included a number near London and near Leeds, Bradford, Harrogate and also in North Wales, the English Lake District, Northamptonshire and Somersetshire.

Advice was given in connection with the selection of suitable sites for rain-gauges to the River Dee Catchment Board, N. Wales Power Co., and the water authorities at Ashton-under-Lyne, Barrow, Harrogate, Lancaster and Wellingborough.

SURVEY MAPS.—The work on the detailed average annual rainfall map of the British Isles on the scale of two miles to the inch, for the period 1881–1915, has been continued, but progress has been mainly restricted to certain areas in Scotland. In drawing these maps all the available information is used, averages for stations with short records being weighted to the standard period 1881 to 1915 by comparison with nearby stations with complete records.

The averages so computed are included in Part III of *British Rainfall.* Reduced copies of specimen maps and a description of the method used in their preparation are given in articles published in Part IV of *British Rainfall* 1928 and 1929.

In drawing these maps the isohyetal lines are naturally somewhat generalised, and if attention is directed to any small area some amplification of the lines there may prove necessary. Moreover, additional records are always being accumulated so that slight modifications in the lines may subsequently prove necessary.

INQUIRIES.—A large number of inquiries regarding the rainfall of various parts of the country was dealt with. Among the more important of these, the following may be mentioned :—

Reports were prepared on the rainfall of certain areas in connexion with enquiries by the British Waterworks Association, Dublin Electricity Supply Board (Shannon Hydrometric Survey), the River Medway Catchment Board, Bristol Waterworks and the South Essex Water Company. Rainfall data were supplied to the Commissioners of Police for the Metropolis in connexion with an enquiry into the relation between weather conditions and the number of street accidents.

Information has been supplied to a number of catchment boards, including copies month by month of daily records representative of the area and copies of maps prepared each month showing the distribution of the rainfall over the area in question.

Reports were supplied monthly to the Metropolitan Water Board and to the Thames Conservancy.

OBITUARY.—During the twelve months 1st July, 1934, to 30th June, 1935, reports have been received of the deaths of 57 observers who have contributed to volumes of *British Rainfall.* Of these nine have kept rainfall records, or been associated with relatives who have kept records for 30 years or more. A list of these is given below. In most cases the records have been maintained throughout by the same observer.

Name.	Last place of observation.	No. of years' records.
Miss E. C. Abraham	Garston, Liverpool	44
W. Evans, Esq., C.E.	Beverley, Yorkshire	41
C. Smyth, Esq.	Little Houghton, Northamptonshire.	40
R. de M. Pratt, Esq.	Lyneham, Oxfordshire ..	37
J. H. Spackman, Esq., J.P. ..	Newbury, Berkshire	36
F. Walkinshaw, Esq.	Basingstoke, Hampshire ..	34
H. D. Foster, Esq.	Bodmin, Cornwall	33
Rev. W. Farrer	Maidenhead, Berkshire	32
E. E. Moore, Esq., M.D. ..	Teignmouth, Devon	32

BRITISH RAINFALL, 1934

PART II

RAINFALL AND METEOROLOGY

1934

1. A BRIEF SUMMARY OF THE RAINFALL OF THE YEAR, 1934.

Over the British Isles as a whole, 1934 will rank as a year of normal rainfall, but it will be remembered mainly in that it continued the run of mainly dry months which began in November, 1932, and also for the abnormally wet December. The general values are set out below as a percentage of the average :—England and Wales, 95 ; Scotland, 110 ; Ireland, 105 ; British Isles, 100.

There was a large area to the east of Wales, stretching from Bristol and Margate in the south to Liverpool and Hull in the north, in which most stations recorded rather less than 90 per cent. of the average. On the other hand by far the greater number of stations in Scotland and the extreme north-east of England recorded about 110 per cent. of the average.

In most localities the driest month of the year was February and the wettest December. Over the British Isles as a whole the accumulated deficiency for the seven months January to July was 2·6 inches, while the excess in December amounted to no less than 2·7 inches.

There were rather more rain-days than usual over both Scotland and Ireland but one less than the average over England and Wales. Over the British Isles as a whole there were 209 rain-days compared with an average number of 204.

Most stations in the British Isles recorded at least one drought or dry-spell (see Section 3) during the year. The large area over which either a drought or dry spell has occurred has been a feature of the rainfall of recent years. Rain-spells and wet-spells were more frequent during 1934 than in most other years mainly owing to the rains of December. The number of intense falls in short periods recorded during 1934 closely approximated to the normal. Among the more striking of the intense falls reference may be made to the following :—·75 inch in 7 minutes at Kew Observatory on July 18th ; 1·25 inches in 10 minutes at Trowbridge on September 15th and 2·25 inches in 25 minutes at Stratford-on-Avon on July 18th. Further details are given in Section 6. Heavy falls on rainfall days during 1934 were not remarkable, the largest entry being 4·70 inches at West Wickham on July 22nd.

At certain stations where large deficiencies occurred during 1934 there had also been small totals in 1933 so that the total for the two years 1933 and 1934 is worthy of special comment. In the list of representative stations given below the total was less than 80 per cent. of the average.

County.	Station.	Rainfall.		Average. ins.	Per cent. of average.		
		1933 ins.	1934 ins.		1933 %	1934 %	1933–34 %
Essex.....	Chelmsford (County Gardens).....	13·71	18·84	22·30	61	84	73
Cheshire ...	Northwich (Hunts Lock)	19·26	24·38	30·00	64	81	73
Northants .	Wellingborough (Swanspool)	17·45	18·44	24·27	72	76	74
Cambridge .	Stretham Engine	16·35	15·19	21·20	77	72	74
,, .	Cambridge (Botanic Gdns.)	15·92	16·98	21·82	73	78	75
Worcester..	Ombersley (Holt Lock)	18·66	19·15	25·26	74	76	75
Herts.....	St. Albans (Oaklands Inst.).....	16·32	21·39	24·90	66	86	76
,, ...	Harpenden (Rothamsted)	17·17	23·01	26·73	64	88	76
Hereford ..	Kington (Lynhales)	23·58	26·60	32·82	72	81	76
Lincoln ...	Skegness (Marine Gdns.)	16·39	18·98	23·29	70	81	76
London	Greenwich (Royal Obs.)	16·97	19·45	23·50	72	83	77
,, ...	St. Pancras (Camden Square)	16·77	20·74	24·47	69	85	77
Middlesex	Tottenham (Drayton Rd.)	16·31	19·64	23·28	70	84	77
Worcester	Worcester (Diglis Lock).....	18·69	19·40	24·72	76	78	77
Cheshire ...	Altrincham (Normans Place)	23·48	28·13	33·56	70	84	77
Montgomery	Welshpool (County School)	21·57	24·78	30·10	72	82	77
Flint	Rhyl (Sewage Works).....	18·10	21·48	25·81	70	83	77
Kent	Margate (Cliftonville)	17·67	17·73	22·80	78	78	78
Herts.....	Royston (Therfield Rectory)	18·43	20·92	25·19	73	83	78
Bedford....	Woburn (Experimental Farm)	17·77	19·56	23·89	74	82	78
Essex.....	Bradwell-on-Sea (Bradwell Hall)	13·69	18·54	20·68	66	90	78
Stafford....	Market Drayton (Old Springs)	21·60	23·28	28·89	75	81	78
Worcester .	Stourport (Lincombe Lock).....	19·52	20·50	25·57	76	80	78
Hants.	Bournemouth (Vale View)	23·27	26·65	31·52	74	85	79
Northants .	Easton-on-the-Hill	18·87	18·12	23·52	80	77	79
Cambridge .	March	19·05	16·89	22·81	83	74	79
Lincoln ..	Louth (Westgate)	20·74	23·56	28·00	74	84	79
Glamorgan	Cardiff (Ely Pumping Station)	29·57	36·96	42·12	70	88	79

The accumulated deficiency from the average recorded over the country generally from the end of October, 1932 also warrants special comment, and values are given below for various groups of consecutive months, each commencing with November, 1932 :—

No. of Months.	Period.	Accumulated Deficiency.			
		England & Wales. in.	Scotland. in.	Ireland. in.	British Isles. in.
2	Nov.—Dec., 1932 ..	3·1	—·3*	—·2*	1·6
5	Nov. 32—Mar. 33 ..	1·7	·2	—·2*	·8
9	Nov. 32—July 33 ..	3·5	·9	·8	2·2
11	Nov. 32—Sept. 33 ..	5·8	4·3	4·3	5·0
14	Nov. 32—Dec. 33 ..	9·7	9·7	9·6	9·7
17	Nov. 32—Mar. 34 ..	11·4	11·2	11·4	11·6
21	Nov. 32—July 34 ..	13·1	7·8	13·1	12·3
23	Nov. 32—Sept. 34 ..	13·1	5·8	9·1	11·2
25	Nov. 32—Nov. 34 ..	14·9	5·7	10·3	12·4
26	Nov. 32—Dec. 34 ..	11·5	4·6	7·4	9·7
Average Annual Rainfall		35·2	50·3	43·3	41·4

* Excess.

It will be seen that the run of months in which deficiencies predominated commenced earliest and lasted longest over England and Wales. Over Scotland the two months November to December, 1932 and over Ireland the five months, November 1932 to March, 1933, gave actually more than the average amounts. Over England and Wales the total deficiency of 14·9 inches for the 25 months, November 1932 to November 1934 represented as much as 42 per cent. of the annual average amount.

2. THE DISTRIBUTION OF RAINFALL IN TIME. THE NUMBER OF RAIN-DAYS AND WET-DAYS IN 1934.

The following definitions have been used in *British Rainfall* in order to obtain a homogeneous series of statistics :—

A *rain-day* is a period of 24 hours, commencing normally at 9 a.m., on which ·01 inch, or 0·2 mm. or more of rain is recorded.

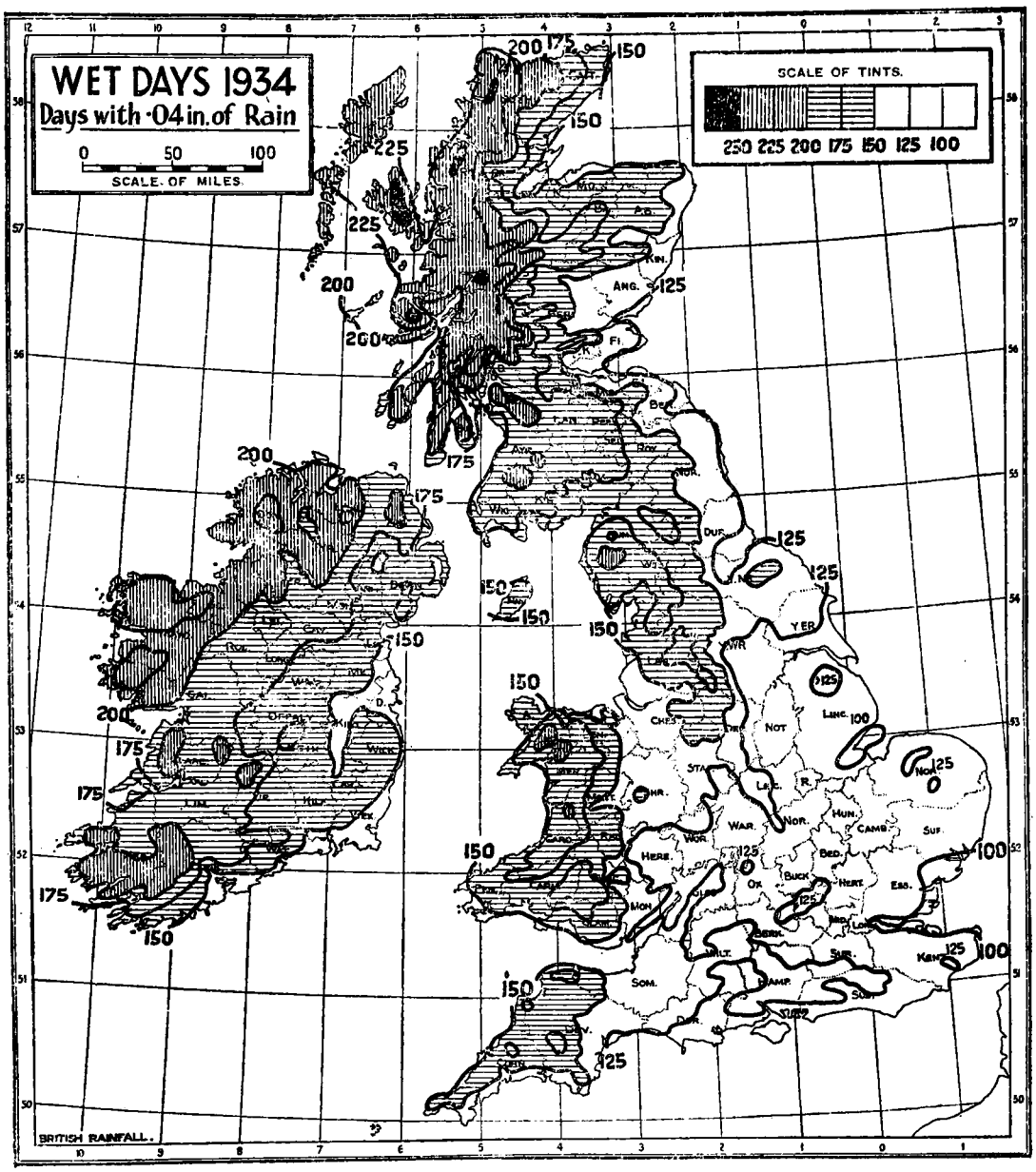
A *wet-day* is a period of 24 hours, commencing normally at 9 a.m., on which ·04 inch, or 1·0 mm. or more of rain is recorded.

The former definition dates from the year 1865, the latter was adopted only about 1917. Each of the terms " rain-day " and " wet-day " is open to criticism, the latter particularly so, since it has a different meaning in ordinary use. It must, therefore, be understood that whenever these terms are used in this publication the meanings set out above are always to be attached to them.

For reasons which are set out in detail in the article entitled " The distribution over the British Isles in time and space of the annual number of days with rain," in *British Rainfall*, 1926, there is frequently a lack of harmony in the annual values at adjacent stations. Statistics of wet-days are found to be much more consistent than those for rain-days. It was this reason, coupled with the fact that similar data are published for certain other countries of Europe, which led to the introduction of statistics of wet-days.

Maps showing the distribution of annual and monthly average number of rain-days over the country were published in the Quarterly Journal of the Royal Meteorological Society, 1928, pp. 89–101, but similar maps of wet-days have not yet been prepared.

Information as to the number of rain-days and wet-days during the year is set out in this volume in various forms. As usual, the General Table of rainfall in Part III of this volume shows the number of rain-days and wet-days in 1934 as reported from each station at which daily observations were made. The number of wet-days have been plotted on a large map of which the illustration on p. 6 is a reduced copy. The distribution of the numbers is shown on the map in the usual manner.



Number of "Wet Days" in 1934.

In order to study the distribution of rain-days and wet-days throughout the year, 100 stations have been selected to represent as uniformly as possible the conditions over the whole of the British Isles. The stations are the same as those used last year except that Peterborough (Abbeyfields), Ross-on-Wye, Birmingham W.W. (Tyrmynydd) and Buncrana Rectory have been used instead of Eye (Northholme), Ross (Birchlea), Haverfordwest (Portfield) and Milford (The Manse), since these records are no longer available for that table. The number of rain-days and wet-days for each month, as well as for the whole year, have been extracted from the returns

from the 100 stations and printed in Table V. Monthly general numbers (for England and Wales, Scotland, Ireland and for the British Isles) have been worked from these data and they are shown in the table in heavy type. The annual mean values for 1934 are shown again in Tables I and III and the monthly mean values for 1934 in Tables II and IV, where in each case they can be readily compared with similar values for the intervening years from 1917; and with the averages. In the case of rain-days averages are available for the standard period 1881 to 1915, but for wet-days the averages cover only the period 1917 to 1934.

The distribution of the annual number of wet-days during 1934, as shown on the map on the previous page, is very similar to that for earlier years. As in all the other maps there is a steady increase in the number of wet-days from the south-east to the north-west of the British Isles and from the plains of the east coast to the mountainous regions of the west. In 1934 the number varied from about 95 at Gravesend and Walton-on-the Naze to 250 over a number of small areas in the mountainous regions in the north-west of Scotland, as well as at Delphi Lodge, in Connemara. Stations with as few as 100 wet-days occurred only in the neighbourhood of the Thames Estuary and the Wash. There were more than 150 wet-days over most of the Devon-Cornwall peninsula, over Wales, the Pennines and the area to the west, as well as over most of Scotland and Ireland apart from coastal strips along the east coasts. While more than half of both Scotland and Ireland and much of the more mountainous part of Wales recorded as many as 175 wet-days only relatively small areas in England gave this number. These areas were confined to parts of Dartmoor, Bodmin Moor, Exmoor, the Pennines near Alston and from the Peak, in Derbyshire, to the Lake District. As many as 200 wet-days were reported from large areas in the north-west of Scotland and of Ireland as well as from Plinlimmon, Snowdonia and the English Lake District.

The total number of rain-days varied from rather less than 135 in the neighbourhood of the Thames Estuary, to over 275 in parts of the Islands of Skye and Mull, on Ben Nevis and parts of Inverness-shire, Ross-shire and Sutherlandshire.

The general values given in Table III indicate that the frequency of wet-days was close to the average for the period 1917 to 1934. The number for 1934 was four less for England and Wales, four more for Scotland, two more for Ireland and one less than the average for the British Isles as a whole.

It should be emphasized that in the case of wet-days comparable statistics are only available back to 1917, and the averages used for comparison are for the period 1917 to 1934, which includes mainly

wet years. The averages are therefore greater than they would have been if statistics covering the standard period 1881 to 1915 were available. This fact is brought out by Table I, which shows that the mean annual number of rain-days during 1917 to 1934 was 211 or seven more than the average for the standard period 1881 to 1915.

The number of wet-days over the British Isles in each month is given in Table IV. The numbers vary from 4 in February to 22 in December. The general number in February of 4 was 8 less than the average and smaller than that for any other month since before 1917 with but three exceptions, *viz.*, February, 1932, March, 1929 and June, 1925, when each month recorded 3 wet-days. December, with 22 wet-days, gave 6 more than the average for that month and more wet-days have occurred since 1917 in only two months, *viz.*, December, 1929 and January, 1928, when the general number was 23 in both cases. The variation in the monthly number of wet-days recorded during 1934 was therefore greater than usual. The number of wet-days in March was 16, or 4 in excess of the average, and in November 10, or 4 less than the average.

In dealing with the general numbers of rain-days, given in Tables I and II, it is possible to compare the values for 1934 with computed averages for the 35 years, 1881 to 1915. It is shown in Table I that over the British Isles as a whole there were 209 rain-days or five more than the average number. The number of rain-days was one less than the average over England and Wales, twelve more over Scotland and twelve more also over Ireland. The year 1931 gave, however, more rain-days over both Scotland and Ireland than occurred in 1934.

The number of rain-days over the British Isles in each month is given in Table II. The range is from 8 in February (9 less than the average) to 27 in December (7 more than the average). A smaller number of rain-days than that of February, 1934 occurred since before 1917 in only five months. On the other hand, no month in the series has given more than 27 rain-days, although the general number in January, 1928 was also 27.

During the year the mean number of rain-days per month was 17, or exactly the average. Of these, 13 received sufficient rain to rank as wet-days. There were five more rain days than wet-days in January, April, October, November and December, four more in February, March and August and three in the remaining months.

None of the 100 selected stations failed to record a rain-day during any calendar month of 1934. Less than 10 rain-days were recorded at most stations in England, Wales and Ireland and in the

southern half of Scotland during February ; over much of the southern half of England during May, June, July and September ; at isolated stations in Norfolk, Dumfries, Fife, Perthshire and Co. Longford in November ; as well as in central Scotland in June and in the south-east of Ireland in July. A number of stations reported only two rain-days during February, *viz.*, Patcham to the north of Brighton, Bishops Castle in Shropshire, West Witton in Wensley Dale and Leuchars Aerodrome to the south of Dundee. At St. Peter Port, in Guernsey, there were only three rain-days in both February and July. As many as eight stations recorded no wet-day at all during February, *viz.*, Ventnor, Selborne, Upton near Didcot, Larkhill on Salisbury Plain, Poole, Blackpool, Dublin and Seaforde, in Co. Down, while only one wet-day occurred during July at both Ventnor and St. Peter Port.

Some rain fell on every day during December at six stations in England and Wales representing parts of Devon, Cornwall, South Wales and Anglesey, and six also in Ireland, and on every day during October at five stations representing Central Wales, Anglesey and parts of the west and north of Scotland. At Llanerchymedd in Anglesey some rain was reported on each day of both October and December. Table XI of Section 4 shows that at this station rain fell on each of the 58 consecutive days from September 15th to November 11th and the 35 consecutive days from November 27th to December 31st. There were as many as 30 wet-days during December at Holne, Okehampton, St. Austell and Valentia Observatory.

Table I.—*Annual General Number of Rain-days (Days with ·01 in. or more) in* 1917-1934, *compared with Average,* 1881-1915†.

Year.	England and Wales. Average 188.			Scotland. Average 217.			Ireland. Average 220.			British Isles. Average 204.		
	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.
1917	185	− 3	98	217	0	100	224	+ 4	102	203	− 1	100
1918	200	+ 12	106	226	+ 9	104	227	+ 7	103	214	+ 10	105
1919	191	+ 3	102	214	− 3	99	213	− 7	97	203	− 1	100
1920	203	+ 15	108	232	+ 15	107	243	+ 23	110	220	+ 16	108
1921	158	− 30	84	224	+ 7	103	217	− 3	99	190	− 14	93
1922	196	+ 8	104	234	+ 17	108	226	+ 6	103	214	+ 10	105
1923	216	+ 28	115	257	+ 40	118	253	+ 33	115	236	+ 32	116
1924	202	+ 14	107	237	+ 20	109	248	+ 28	113	223	+ 19	109
1925	192	+ 4	102	231	+ 14	106	230	+ 10	105	212	+ 8	104
1926	192	+ 4	102	234	+ 17	108	226	+ 6	103	211	+ 7	103
1927	208	+ 20	111	233	+ 16	107	238	+ 18	108	223	+ 19	109
1928	204	+ 16	109	240	+ 23	111	247	+ 27	112	225	+ 21	110
1929	165	− 23	88	217	0	100	218	− 2	99	192	− 12	94
1930	207	+ 19	110	223	+ 6	103	232	+ 12	105	217	+ 13	107
1931	199	+ 11	106	233	+ 16	107	235	+ 15	107	217	+ 13	106
1932	190	+ 2	101	219	+ 2	101	214	− 6	97	204	0	100
1933	162	− 26	86	193	− 24	89	191	− 29	87	177	− 27	87
1934	187	− 1	99	229	+ 12	106	232	+ 12	106	209	+ 5	103

† The averages for the period 1881–1915 are based on the records from about 100 stations distributed as evenly as possible over the country. The selection of stations is described in an article in *British Rainfall,* 1926, p. 267, and the general number of rain-days in each year from 1881 will be found in Table I of that article.

Table II.—*Monthly General Number of Rain-days (days with ·01 in. or more) in* 1917 *to* 1934, *British Isles, with Average,* 1881-1915‡.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1917 ..	15	12	19	16	13	14	12	23	17	25	20	17	203
1918 ..	20	20	12	12	13	13	19	17	25	22	16	25	214
1919 ..	23	12	20	18	11	16	11	16	16	14	20	26	203
1920 ..	24	17	21	23	19	13	24	13	17	13	16	20	220
1921 ..	25	9	23	11	17	7	12	20	11	16	16	23	190
1922 ..	24	20	17	18	13	15	21	19	17	12	16	22	214
1923 ..	22	24	15	17	19	13	18	21	20	25	19	23	236
1924 ..	22	15	10	16	23	17	20	23	20	19	16	22	223
1925 ..	18	23	16	19	23	5	16	17	21	19	15	20	212
1926 ..	24	20	14	17	19	14	14	17	16	17	24	15	211
1927 ..	23	16	21	18	12	20	18	21	22	17	21	14	223
1928 ..	27	17	21	16	11	20	14	19	12	23	23	22	225
1929 ..	14	14	5	13	14	15	14	21	11	22	23	26	192
1930 ..	23	9	19	16	15	12	18	23	18	24	19	21	217
1931 ..	22	22	11	19	19	18	22	15	14	15	22	18	217
1932 ..	19	7	15	22	21	7	20	13	20	25	17	18	204
1933 ..	16	18	16	12	17	12	16	14	9	19	15	13	177
1934 ..	21	8	20	19	14	12	13	19	18	23	15	27	209
Average	19	17	18	15	15	14	16	17	15	19	19	20	204

‡ The average general values for England and Wales, Scotland and Ireland separately are given in *British Rainfall,* 1927, p. 7, and are discussed in an article on *The Distribution over the British Isles of the average number of days with rain during each month of the year.*—Q.J.R. Meteor. Soc. Vol. 54, 1928.

Table III.—*Annual General Number of Wet-days (Days with ·04 in. or more) in* 1917 *to* 1934, *with Average.*

	England and Wales.	Scotland.	Ireland.	British Isles.
1917	134	174	176	155
1918	150	182	188	168
1919	143	172	171	158
1920	151	185	197	171
1921	110	177	166	142
1922	146	181	178	163
1923	159	206	198	182
1924	154	184	199	173
1925	143	179	180	162
1926	141	184	173	161
1927	156	184	185	171
1928	151	193	200	175
1929	121	170	170	147
1930	155	174	186	168
1931	145	180	182	163
1932	136	168	165	152
1933	115	145	142	130
1934	137	183	182	160
Average 1917-34	141	179	180	161

Table IV.—*Monthly General Number of Wet-days (Days with ·04 in. or more) in* 1917 *to* 1934, *British Isles, with Average.*

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1917 ..	11	8	14	13	10	10	9	20	12	21	15	12	155
1918 ..	15	17	9	9	10	9	15	12	22	16	13	21	168
1919 ..	19	9	15	14	8	12	8	12	13	11	15	22	158
1920 ..	20	13	17	19	15	10	19	9	13	9	12	15	171
1921 ..	20	5	17	8	13	5	10	15	7	12	12	18	142
1922 ..	20	16	13	14	9	11	16	15	13	8	11	17	163
1923 ..	15	20	11	13	14	8	13	17	16	21	16	18	182
1924 ..	17	9	7	12	19	13	17	18	16	15	12	18	173
1925 ..	14	19	11	15	18	3	12	13	15	14	12	16	162
1926 ..	20	15	9	12	15	11	11	13	12	14	19	10	161
1927 ..	19	13	17	13	8	16	13	17	17	13	15	10	171
1928 ..	23	13	16	11	8	16	10	15	9	19	18	17	175
1929 ..	9	10	3	8	11	11	11	16	8	17	20	23	147
1930 ..	19	5	14	12	11	9	14	18	14	20	16	16	168
1931 ..	17	18	7	14	15	14	17	11	9	11	18	12	163
1932 ..	15	3	11	18	15	5	16	9	15	20	12	13	152
1933 ..	12	14	13	9	12	10	12	10	6	14	10	8	130
1934 ..	16	4	16	14	11	9	10	15	15	18	10	22	160
Average 1917-34	17	12	12	13	12	10	13	14	13	15	14	16	161

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1934.

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Total Rain-fall.
ENGLAND AND WALES.															in.
London 2	St. Pancras (Camden Square)	18 11	4 1	16 12	12 10	7 3	8 8	6 4	13 8	10 7	13 10	11 6	23 22	141 102	20·74
Kent 2	Lympne (Aerodrome)	18 12	7 1	14 12	16 11	7 6	8 6	10 5	15 10	8 7	14 8	12 10	26 22	155 110	25·84
Sussex 3	Patcham (Brighton W.W.) ...	16 13	2 1	14 11	18 13	6 6	11 7	7 5	13 10	11 6	16 11	14 9	23 21	151 113	31·70
Hampshire .1	Ventnor (Royal National Hos.)	20 10	3 0	16 13	14 11	8 6	5 4	5 1	14 9	14 9	20 11	13 7	28 24	160 105	30·09
Hampshire..7	Selborne (The Wakes)	22 13	5 0	17 13	18 15	8 7	11 9	10 6	17 15	16 13	16 11	17 9	28 25	185 136	37·66
Berkshire ..5	Upton (Manor House)	19 8	3 0	14 12	16 8	6 3	9 6	9 5	14 12	14 9	16 8	17 8	27 21	164 100	20·54
Northants ..4	Wellingborough (Swanspool)..	14 8	5 4	14 12	19 11	9 5	11 9	9 5	17 11	11 5	16 12	14 9	24 19	163 110	18·44
Northants ..4	Peterborough (Abbeyfields) ..	18 9	10 3	15 11	18 13	7 4	12 6	7 6	16 11	11 5	16 10	15 8	24 18	169 104	17·07
Cambridge .2	Cambridge (Botanic Gardens).	16 10	7 3	14 12	13 9	6 5	12 9	7 7	13 11	6 6	13 9	12 7	23 16	142 104	16·98
Essex 3	Shoeburyness (Great Wakering)	16 11	7 1	15 10	18 10	7 5	6 5	8 3	11 8	9 8	12 6	10 5	26 20	145 92	14·84
Suffolk 2	Haughley (Haughley House) .	17 12	5 2	14 12	15 13	9 9	10 6	8 6	12 8	9 8	12 8	12 6	22 17	145 107	18·93
Norfolk 1	Gorleston (C. Guard Stn.)	17 13	6 3	13 10	18 15	7 7	8 7	9 5	12 8	9 7	15 9	9 7	25 21	148 112	20·96
Norfolk 4	Sporle	19 15	11 7	18 13	17 13	10 7	11 7	9 7	13 11	10 8	17 13	15 6	26 20	176 127	21·76
Wiltshire ...3	Larkhill (Sch. of Artillery) ...	22 12	6 0	18 14	15 11	6 5	10 6	8 6	16 11	16 11	15 9	11 7	30 25	173 117	29·15
Dorsetshire .3	Poole	19 12	3 0	19 13	14 11	7 6	8 5	4 2	16 11	14 11	14 10	10 7	30 25	158 113	27·89
South Devon4	Holne (Church Park Cottage).	22 20	3 2	18 13	21 14	12 5	11 8	10 4	20 16	20 16	24 16	16 9	31 30	208 153	72·98
North Devon2	Barnstaple (N.Dev.Athenæum)	27 17	10 2	21 17	14 12	15 8	10 6	7 3	22 15	22 18	28 24	19 10	31 27	226 159	34·83
North Devon3	Okehampton (Uplands).....	23 19	7 1	17 16	18 16	11 8	11 9	11 6	20 15	21 17	30 21	16 11	31 30	216 169	56·64
Cornwall ...2	St. Austell (Trevarna)	22 20	4 3	20 20	16 12	10 8	12 10	9 6	23 16	21 16	23 16	12 9	31 30	203 166	46·63
Somerset ...1	Bath (Henrietta Park)	21 14	3 1	19 16	14 13	8 5	9 8	9 7	13 12	15 13	20 10	12 7	27 22	170 128	26·25
Somerset ...3	Angersleigh (Leigh Court)	20 13	7 2	18 14	18 14	7 6	9 7	7 2	18 11	17 11	22 14	17 9	29 27	189 130	34·16
Hereford ...1	Ross-on-Wye	19 9	5 1	17 14	14 10	8 6	9 6	4 4	15 10	13 7	17 8	10 9	28 21	159 105	22·40
Shropshire ..3	Bishops Castle (The Vicarage)	18 16	2 1	18 11	18 13	14 8	9 8	11 8	16 10	15 11	22 16	17 10	30 22	190 134	27·70
Shropshire ..4	Shifnal (Hatton Grange).....	24 16	4 2	22 17	19 14	13 8	13 9	11 6	23 14	18 11	24 13	18 10	28 24	216 144	24·56
Staffs.....5	Mayfield.....	19 12	6 3	21 16	16 10	13 9	10 7	12 7	18 16	13 10	29 16	13 8	29 22	199 136	27·02

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1934.—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Total Rainfall.
ENGLAND AND WALES—(*con.*)															in.
Warwick ...1	Warwick Castle Gardens	16 11	3 2	18 13	17 12	6 6	11 6	9 8	14 12	12 7	20 12	15 10	29 19	170 118	19·94
Leicester ...4	Leicester (Stoughton Drive)..	16 13	4 3	17 14	16 12	9 6	11 6	7 6	13 13	13 9	16 12	15 10	26 20	163 125	20·68
Lincoln 3	Horncastle	15 11	8 6	18 11	18 11	11 5	12 6	10 8	16 10	8 5	18 12	13 9	27 17	174 111	21·69
Nottingham.5	Worksop (Hodsock)	15 8	8 3	22 14	16 12	11 5	12 9	9 5	14 9	13 8	22 13	15 9	25 19	182 114	21·39
Cheshire ...2	Northwich (Hunts Lock).....	16 12	5 2	21 14	14 10	12 8	13 10	12 8	20 15	18 13	27 20	12 8	27 19	197 139	24·38
North Lancs.5	Blackpool (Met. Observatory).	21 16	3 0	22 16	16 11	17 14	13 9	9 5	22 15	19 14	28 22	14 8	28 22	212 152	37·50
Yorks. W.R.8	Meltham (Harewood Lodge) ..	17 14	10 4	24 17	20 13	17 12	14 11	12 10	19 17	16 14	26 21	15 11	30 22	220 166	38·88
Yorks. E.R..3	Hull (Pearson Park)	14 8	6 4	20 12	16 12	9 6	12 7	11 8	14 9	14 8	18 11	14 9	23 16	171 110	21·40
Yorks. E.R..4	Filey Vicarage	17 11	6 5	19 12	14 13	10 7	10 7	12 10	14 9	15 8	18 16	17 13	29 18	181 129	25·98
Yorks. N.R..1	West Witton (Ivy House).....	18 17	2 2	20 15	18 14	13 9	13 9	9 5	17 14	17 12	20 16	13 11	28 22	188 146	33·26
Yorks. N.R. 2	Felixkirk (Mount St. John) ..	18 10	6 4	18 13	15 14	12 9	13 8	15 9	16 12	13 12	20 16	20 13	28 25	193 145	28·96
Durham ...2	Sunderland (W. Hendon Ho.).	14 10	8 3	19 12	17 12	12 8	10 10	10 6	16 9	16 9	21 14	19 14	28 19	190 126	27·39
North'land..6	Ilderton (Lilburn Tower Gdns.)	16 10	6 3	19 14	21 17	15 9	11 9	13 8	17 12	15 9	19 16	16 13	28 18	196 138	36·76
Cumberland.1	Geltsdale	17 16	5 2	23 17	22 18	14 14	12 12	17 14	18 17	20 19	27 23	20 13	25 22	220 187	39·54
Westm'land.2	Grasmere (The Wray).....	25 24	9 4	25 23	23 15	20 15	12 10	16 10	23 21	26 24	29 24	21 10	30 28	259 208	99·38
Glamorgan..6	Treherbert (Tyn-y-waun).....	24 20	3 3	20 18	20 16	12 12	11 9	11 10	20 18	19 18	26 20	16 11	31 29	213 184	93·52
Carmarthen.2	Carmarthen (The Friary).....	24 18	4 2	20 19	17 13	10 9	10 8	10 5	18 16	22 17	26 23	13 9	28 28	202 167	42·62
Cardigan ...3	Lampeter (Falcondale).....	24 18	4 3	23 18	21 16	14 12	10 8	10 5	22 19	24 21	30 26	18 11	29 28	229 185	51·73
Radnor 1	Birmingham W.W. (Tyrmynydd)	23 17	4 1	20 17	21 15	15 11	12 9	13 10	25 20	25 19	31 26	20 12	28 26	237 183	61·31
Denbigh ...2	Denbigh (Garn)	20 14	6 3	23 17	15 11	15 10	10 9	12 7	22 13	13 11	28 22	13 11	25 20	202 148	29·00
Merioneth ..4	Dolgelley (Bontddu)	21 17	6 4	23 17	20 15	18 18	12 8	10 8	25 21	23 21	29 25	16 8	26 25	229 187	62·83
Anglesey	Llanerchymedd (Ll'diarth Es.)	26 18	4 2	17 13	18 14	17 15	8 7	6 4	19 15	23 23	31 29	18 12	31 27	218 179	40·83
England and Wales	**(Mean of 47 Stations)**.....	**19 14**	**6 2**	**19 14**	**17 13**	**11 8**	**11 8**	**10 6**	**17 13**	**14 12**	**21 15**	**15 9**	**27 23**	**187 137**	**34·15**

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1934.—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Total Rainfall.
ISLE OF MAN.															in.
Isle of Man ..	Douglas (Borough Cemetery)..	20 15	5 2	21 17	18 13	15 13	11 11	10 4	18 14	20 17	29 21	14 8	28 28	209 165	45·86
CHANNEL ISLANDS.															
Guernsey	St. Peter Port (Grange Road).	18 14	3 1	20 17	14 10	7 6	8 5	3 1	14 11	15 13	20 15	19 13	29 27	170 133	38·42
SCOTLAND.															
Wigtown ...3	Whithorn (Physgill)	21 17	7 4	17 14	17 12	16 13	11 7	17 11	19 16	22 19	28 25	13 8	28 25	216 171	41·29
Dumfries ...3	Dumfries (Crichton R. Inst.) ..	23 17	3 2	17 13	16 14	15 11	14 7	15 9	20 16	22 19	24 20	8 5	26 23	203 156	42·14
Peebles.... 1	Edin. W.W. (Victoria Lodge)..	27 22	5 2	24 18	25 16	16 12	13 8	24 13	19 13	22 20	25 21	14 8	26 23	237 176	54·81
Berwick 4	Duns Castle	14 9	4 2	19 16	21 17	17 9	12 8	14 8	14 12	16 11	19 12	14 11	27 18	191 133	33·07
W. Lothian 2	Linlithgow (Preston House) ..	21 17	4 2	18 16	20 13	9 7	11 10	14 9	18 11	24 16	17 15	5 4	21 17	182 137	32·99
Lanarkshire.5	Strathaven (Dungavel).....	24 21	11 4	18 18	19 18	18 15	14 12	21 18	22 18	22 20	26 26	15 11	28 21	238 202	53·28
Ayrshire....6	Maybole (Culzean Castle Gdns.)	24 19	9 6	20 18	17 14	17 15	10 10	11 9	19 15	23 21	27 22	10 8	26 23	213 180	43·78
Renfrew ...3	Greenock (Prospect Hill).....	25 22	10 5	22 16	18 14	18 16	16 9	19 13	23 16	23 22	24 23	18 9	28 24	244 189	60·90
Buteshire ..3	Dougarie Lodge.....	25 20	9 4	20 17	14 12	19 17	15 10	16 13	23 18	23 20	27 24	12 8	27 24	230 187	53·24
Argyllshire..8	Lochgilphead (Poltalloch)....	25 25	14 13	20 19	15 15	21 21	10 10	16 16	21 21	22 22	30 30	14 14	24 24	232 230	62·44
Argyllshire.14	Islay (Eallabus)	25 23	15 8	20 18	17 13	18 18	13 10	21 19	23 21	25 20	30 29	20 12	28 25	255 216	51·67
Argyllshire.14	Mull (Gruline)	27 23	21 15	21 17	21 19	26 23	13 10	23 20	25 22	28 27	31 29	20 17	28 24	284 246	86·60
Argyllshire.14	Tiree.....	26 23	15 6	17 15	16 14	21 17	13 10	22 18	23 19	25 24	31 25	19 13	27 23	255 207	45·72
Fifeshire....3	Leuchars (Aerodrome)	18 11	2 1	18 12	19 13	13 8	10 7	16 12	15 10	20 12	18 8	7 6	24 15	180 115	27·57
Perthshire .11	Aberfeldy (Dall Avon)	25 18	4 2	19 15	21 12	12 12	9 5	15 10	17 9	22 20	24 20	9 4	29 23	206 150	43·26
Kincardine .2	Stonehaven (Mains of Cowie)..	16 10	6 4	15 11	21 13	12 11	8 6	14 11	13 11	18 12	21 16	12 9	23 18	179 132	30·34
Aberdeen ..1	Balmoral Castle Gardens.....	22 14	10 5	23 16	27 20	17 12	12 8	19 12	18 12	19 14	22 18	15 9	28 22	232 162	39·95
Aberdeen ..4	Peterhead (Forehill Works) ..	17 14	11 7	12 11	24 19	15 10	8 6	15 10	18 13	14 12	22 17	21 16	25 21	202 156	30·57
Morayshire .2	Fochabers (Gordon Castle) ..	13 10	13 7	18 13	18 15	15 13	12 8	17 14	18 16	14 8	23 20	16 9	22 12	199 145	28·91
Inverness ..3	Cluny Castle	24 22	13 10	18 14	23 16	18 16	16 10	19 16	19 16	22 21	25 22	14 7	24 19	235 189	44·21
Inverness .16	Fort William (The Factory) ..	27 23	17 12	24 15	20 19	24 20	13 12	21 16	25 23	24 24	29 24	20 13	25 21	269 222	80·06

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1934.—*(con.).*

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Total Rain-fall.
SCOTLAND —*(con.)*.															in.
Inverness .18	Skye (Portree)	26 24	21 19	19 17	22 21	24 22	14 12	22 21	26 25	26 26	30 29	24 20	25 20	279 256	86·24
R'&Cromarty3	Fortrose	18 14	8 5	14 12	20 18	12 8	11 7	14 10	15 12	15 11	23 15	10 7	13 12	173 131	28·33
R'&Cromarty7	Ullapool.....	25 22	20 15	20 16	24 18	19 13	10 8	23 18	24 22	23 17	31 29	19 12	19 14	257 204	50·11
R'&Cr'm'rty10	Stornoway (C. Guard Stn.) ...	26 24	22 14	19 15	27 23	22 15	11 9	22 20	25 21	28 23	29 27	26 17	25 16	282 224	48·16
Sutherland .1	Lairg	19 15	15 12	17 14	20 17	17 15	12 8	16 12	24 22	16 13	25 24	15 11	20 15	216 177	42·10
Sutherland .5	Loch More (Achfary)	28 24	23 22	25 21	26 25	24 22	13 11	23 20	29 26	24 20	30 29	24 21	23 16	292 257	92·62
Caithness ..3	Thurso (Buckies)	17 16	17 13	21 18	23 16	17 13	10 6	18 13	23 21	16 13	28 26	23 14	24 18	237 187	43·77
Scotland	**(Mean of 28 Stations)**.....	**22 19**	**12 8**	**19 15**	**20 16**	**17 14**	**12 9**	**18 14**	**21 17**	**21 18**	**26 22**	**16 11**	**25 20**	**229 183**	**49·51**
IRELAND.															
Co. Cork....6	Dunmanway (The Rectory)..	24 22	6 3	23 19	20 17	15 12	16 13	13 9	24 18	20 18	16 14	17 10	31 29	225 184	63·70
Co. Cork....7	Glanmire (Lota Lodge)	23 20	3 2	20 15	20 15	13 8	13 12	12 8	21 16	22 16	17 12	11 9	30 27	205 160	44·67
Co. Cork....9	Mallow (Longueville)	26 19	8 2	26 20	22 15	19 10	18 11	17 11	28 17	26 21	25 17	19 10	30 25	264 178	42·37
Co. Kerry...3	Valentia Observatory	26 23	8 4	23 22	21 16	18 12	12 11	18 12	27 23	24 20	26 19	21 13	31 30	255 205	62·04
Co. Waterford 3	Waterford (Gortmore)	22 17	4 1	23 17	18 13	11 7	14 8	9 8	19 12	19 15	19 12	10 7	30 28	198 145	39·09
Co. Tipperary1	Nenagh (Castle Lough).....	23 20	11 4	25 20	18 15	19 12	16 13	16 10	27 23	25 21	27 19	13 9	31 25	251 191	43·00
Co. Tipperary3	Cashel (Ballinamona)	25 18	6 2	23 18	20 15	14 8	11 9	15 8	23 17	23 17	23 15	11 7	29 25	223 159	35·19
Co. Limerick 2	Foynes (Coolnanes).....	29 19	10 3	21 19	18 11	19 13	13 11	14 10	23 20	24 20	26 22	17 7	30 26	240 181	36·90
Co. Wexford 4	Gorey (Courtown House)	22 17	3 3	19 14	15 13	10 8	11 8	8 6	19 13	19 14	19 11	17 12	28 24	190 143	40·53
Co. Leix....2	Abbey Leix (Blandsfort).....	20 19	5 2	24 20	17 14	13 9	11 9	9 8	23 21	20 20	22 14	15 8	28 21	207 165	35·28
Co. Dublin..2	Dublin City (FitzWilliam Sq).	15 10	3 0	19 12	18 12	13 8	14 12	13 9	20 16	19 12	18 11	13 8	27 18	193 128	24·96
Co. Meath ..4	Kells (Headfort)	22 16	4 1	22 15	23 16	16 16	10 10	14 7	21 12	22 19	23 18	11 8	26 21	214 159	31·94
Co. W'meath1	Mullingar (Belvedere Ho.)....	22 18	6 3	24 18	22 14	17 13	15 12	16 9	22 15	22 18	25 21	13 8	28 25	232 174	39·29
Co. Longford2	Newtownforbes (Cas. Forbes Gardens)	20 18	5 4	23 23	17 14	14 13	13 13	12 12	21 19	20 19	24 20	8 8	27 26	204 189	41·33
Co. Galway .8	Ballynahinch Castle	25 25	8 4	22 19	19 15	18 17	15 11	20 17	27 24	28 23	30 27	23 17	30 28	265 227	69·62

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1934.—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Total Rain-fall.
IRELAND —(*con*).															in.
Co. Mayo ...4	Mallaranny.....	25 24	12 9	25 23	20 16	19 17	13 12	16 15	21 20	22 20	29 28	21 18	31 29	254 231	66·27
Co. Sligo ...2	Collooney (Markree Cas.)	26 22	12 6	23 20	21 16	17 15	16 13	17 16	24 22	26 25	30 25	16 12	28 26	256 218	46·10
Co. Fermʼgh 1	Newtownbutler (Crom Cas.)	26 18	12 4	23 18	20 15	17 15	15 12	19 9	23 18	25 22	25 20	15 8	31 24	251 183	37·05
Co. Armagh.5	Armagh Observatory	19 15	8 4	19 15	19 15	17 13	11 8	16 12	24 21	23 17	23 19	13 5	26 23	218 167	34·30
Co. Down...2	Seaforde	24 16	4 0	16 11	15 10	17 16	11 8	15 11	26 21	23 22	28 17	13 7	29 27	221 167	41·57
Co. Antrim .5	Ballymena (Harryville)	23 19	9 6	22 19	19 14	17 16	14 12	18 17	24 20	22 19	28 25	18 13	31 26	245 205	43·93
Co. Tyrone..3	Omagh (Edenfel).....	25 21	12 7	25 19	22 16	18 15	11 10	17 15	22 20	24 22	29 27	21 10	29 23	255 205	43·16
Co Donegal 2	Buncrana Rectory	27 22	14 8	24 17	24 17	19 14	14 11	19 19	26 22	26 20	30 26	19 13	26 22	268 211	43·18
Ireland	**(Mean of 23 Stations).....**	**24 19**	**8 4**	**22 18**	**20 15**	**16 12**	**13 11**	**15 11**	**23 19**	**23 19**	**24 19**	**15 10**	**29 25**	**232 182**	**43·72**
British Isles..	**(Mean of 100 Stations).....**	**21 16**	**8 4**	**20 16**	**19 14**	**14 11**	**12 9**	**13 10**	**19 15**	**18 15**	**23 18**	**15 10**	**27 22**	**209 160**	**30·81**

3. ABSOLUTE DROUGHTS, PARTIAL DROUGHTS AND DRY SPELLS IN 1934.

As in the analogous case of rain-days and wet-days (Section 4), certain definitions have to be adopted in order to obtain a reliable body of statistical information on the subject of droughts. The definitions used are :—

An **absolute drought** is a period of at least 15 consecutive days, to none of which is credited ·01 inch of rain or more ;

A **partial drought** is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed ·01 inch ;

A **dry spell** is a period of at least 15 consecutive days to none of which is credited ·04 inch of rain or more.

These terms are used in *British Rainfall* only in the senses stated More concise definitions of two of these terms would be :—An *absolute drought* is a period of at least 15 days, none of which is a rain-day ; a *dry spell* is a period of at least 15 days, none of which is a wet day. The definitions of absolute drought and partial drought were introduced in *British Rainfall*, 1887, page 21 while that of dry spell was first used in *British Rainfall*, 1919, page 15.

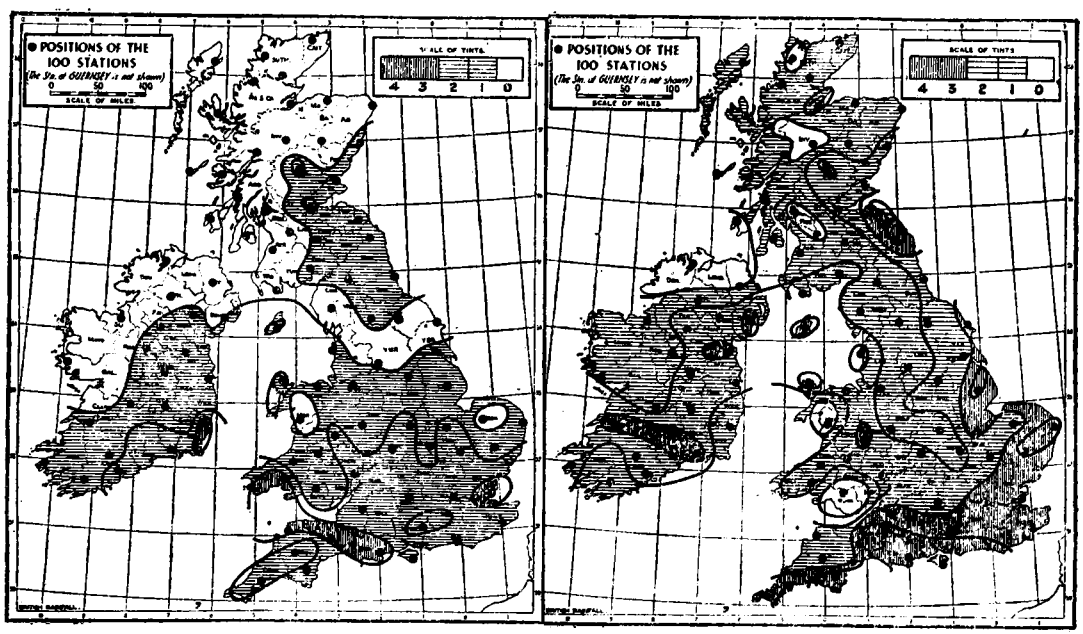
In Table VIII are given particulars of the absolute droughts, partial droughts and dry spells, which occurred at the 100 selected stations of Table V. Stations from which no droughts were reported are omitted from this table.

During 1934 the number of stations out of the 100 which failed to record either a drought or a dry spell was only nine, a number much smaller than usual, though in 1932 and 1929 the numbers were only four and one respectively. In 1933 the corresponding number was thirteen. 1934, 1933, 1932 and 1929 were all noteworthy for the large areas over which either a drought or dry spell occurred. Of the nine stations without either a drought or dry spell during the year five were situated in western Scotland, three in northern Ireland and one in Wales, actually at Dolgelly.

In Tables VI and VII the numbers of droughts and dry spells recorded in 1934 are compared with those of each year from 1917 to 1933. In the case of absolute droughts and dry spells similar information is available as far back as the famous dry year 1887 and averages are therefore available for the 48 years 1887 to 1934. Statistics, comparable with those given in Table VI, are given for the years 1887 to 1916 in *British Rainfall*, 1929, page 20.

The total number of absolute droughts recorded in 1934 was 82 or 22 more than the average 1887 to 1934. The number of partial droughts was 101 or 47 more than the average. A larger number of partial droughts has been recorded in only five out of the preceding 47 years, *viz.*, 1887, 1893, 1911, 1921 and 1932, with 116, 106, 137, 109 and 156 respectively. The number of dry spells was 193 or 56 in excess of the average for the period 1917 to 1934, almost the same as in 1933.

Of the 100 stations, 38 had no absolute drought and 33 no partial drought. There were only 10 stations, or 17 less than the average, without a dry spell during 1934. Six dry spells were recorded at one station, *viz.* St. Peter Port in Guernsey, and these dry spells



Partial Droughts, 1934. **Dry Spells, 1934.**

covered as many as 120 days of the year. Some details as to the total number of partial droughts and dry spells recorded during the year are given in the diagrams. The diagram shows that the number of partial droughts recorded during 1934 decreased from the south

of England to the north-west of Scotland and of Ireland. The distribution of the number of dry spells was more complicated.

The longest absolute drought lasted 30 days at Glanmire, near Cork, from January 25th to February 23rd. The longest partial drought persisted from January 14th to March 8th, a period of 54 days, at Dublin. The longest dry spell also occurred at Dublin, and lasted for 44 days from January 19th to March 3rd. Longer absolute droughts, partial droughts and dry spells were recorded both in 1932 and 1929.

Absolute droughts at the 100 selected stations were confined to the first seven months of the year. The most widespread absolute drought occurred during February although it commenced as early as January 25th at certain stations. This drought was experienced at rather more than half the stations in England, as well as at stations in the south-east of Scotland and of Ireland. No absolute droughts were recorded during March, April or the first half of May. A number of stations in the south of England recorded an absolute drought during the latter half of May and beginning of June, while in northern and central Scotland this drought commenced somewhat later. A number of stations, representative of the north-east coast of England, Anglesey, the Isle of Man, Bute, Ayrshire, the north coast of Wales and Co. Tipperary recorded a drought during the end of June and the first half of July. At Poole the absolute droughts of May and June were separated by only two days with rain, *viz.* June 1st and 2nd.

The majority of partial droughts were included in the period January 14th to March 10th, although they occurred at a good many stations at some time during the period May 7th to June 22nd. A few stations in the south-west of England, in southern Wales, Anglesey, the Isle of Man and in Co. Wexford, recorded a partial drought during July. There were only three partial droughts after the beginning of August *viz.* from October 7th to November 7th at Shoeburyness and during November at Linlithgow and Aberfeldy, in Perthshire.

Dry spells were most frequent during the periods January 19th to March 3rd and May 9th to June 20th, although many stations recorded a dry spell from about June 22nd to July 23rd or about November 9th to December 2nd. While no station gave an absolute drought and only two stations a partial drought during November there were as many as 27 stations with a dry spell at some time during that month. The most widespread dry spell in Scotland was that during the latter half of May and beginning of June, while in Ireland this spell was slightly less widespread than that of February.

Table VI.– *Droughts at* 100 *Stations*, 1917–1934.

Year.	ABSOLUTE DROUGHTS.* No. of Droughts at 100 Stations.	Mean Duration.	Longest.	Stations without one.	PARTIAL DROUGHTS.† No. of Droughts at 100 Stations.	Mean Duration.	Longest.	Stations without one.
		Days.	Days.			Days.	Days.	
1917	109	19	28	23	64	33	61	46
1918	20	16	18	83	14	34	47	87
1919	33	18	31	68	44	38	50	63
1920	18	17	22	84	22	37	54	79
1921	86	19	38	47	109	42	89	30
1922	63	17	23	46	44	36	51	66
1923	11	17	24	89	20	38	54	80
1924	50	16	22	55	25	36	57	81
1925	74	23	33	37	76	38	60	29
1926	20	17	24	83	43	36	57	64
1927	11	17	19	90	19	32	43	83
1928	50	17	22	57	41	33	43	70
1929	110	20	37	14	99	47	85	35
1930	16	17	20	86	29	31	42	72
1931	16	18	21	85	28	34	46	82
1932	87	19	32	36	156	40	71	7
1933	56	18	25	52	92	37	69	52
1934	82	18	30	38	101	37	54	33
Average 1887–1934	60	18	26	54	54	36	56	58
1934 diff. from Average.	+22	0	+4	−16	+47	+1	−2	−25

* 15 days without a "rain day." † 29 days averaging not more than ·01 in.

Table VII.—*Dry Spells** *at* 100 *Stations*, 1917–1934.

Year.	Number at 100 Stations.	Mean Duration.	Longest Spell.	Number of Stations with None.	1 or 2.	3 or 4.	5 or more.
		Days.	Days.				
1917	193	20	31	5	70	25	0
1918	118	17	26	36	47	17	0
1919	98	19	38	35	62	3	0
1920	56	18	31	55	44	1	0
1921	201	21	58	21	43	29	7
1922	162	18	30	13	65	22	0
1923	65	18	29	54	43	3	0
1924	120	17	29	32	56	12	0
1925	164	22	43	14	65	21	0
1926	98	19	40	30	65	5	0
1927	91	17	31	43	49	8	0
1928	115	19	31	25	68	7	0
1929	215	22	53	1	65	31	3
1930	76	18	22	45	51	4	0
1931	84	19	26	53	35	12	0
1932	229	23	51	5	53	38	4
1933	191	19	40	14	54	31	1
1934	193	20	44	10	60	29	1
Average 1917–1934	137	19	36	27	55	17	1

*15 days without a "wet day."

TABLE VIII.—*Droughts and Dry Spells in* 1934.

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
ENGLAND AND WALES												
				days			days	in.			days	in.
London 2	St. Pancras (Camden Square).	..	..	..	*17.xi.33*	*Jan. 1*	*46*	*·43*	..	..	..	..
		Feb. 4	Feb. 24	21	Jan. 19	Mar. 1	42	·39	Jan. 31	Feb. 27	28	·07
		May 16	June 5	21	May 7	June 20	45	·32	May 16	June 5	21	·00
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·06
Kent 2	Lympne (Aerodrome)	..	..	..	Jan. 26	Mar. 1	35	·33	Jan. 31	Feb. 27	28	·11
		..	..	..	..	..	..	..	Mar. 21	Apr. 5	16	·01
		May 17	June 5	20	May 9	June 20	43	·39	May 17	June 5	20	·01
Sussex 3	Patcham (Brighton W.W.)....	Feb. 1	Feb. 24	24	Jan. 26	Mar. 1	35	·25	Jan. 31	Feb. 27	28	·03
		May 17	May 31	15	May 7	June 20	45	·41	May 17	May 31	15	·00
		..	..	..	..	..	..	..	Sept. 3	Sept. 18	16	·09
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·03
Hampshire .1	Ventnor (Royal Nat. Hospital)	Feb. 4	Feb. 23	20	Jan. 26	Mar. 4	38	·38	Jan. 31	Mar. 1	30	·06
		..	..	..	May 7	June 20	45	·29	May 16	June 20	36	·05
		June 2	June 20	19	..	..	..	..	June 29	July 23	25	·08
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·03
,, ...7	Selborne (The Wakes)	..	..	..	Jan. 26	Mar. 3	37	·36	Jan. 31	Mar. 1	30	·13
		May 18	June 5	19	..	..	..	..	May 18	June 5	19	·00
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·09
Berkshire ...5	Upton (Manor House)	Feb. 4	Feb. 23	20	Jan. 19	Mar. 3	44	·44	Jan. 31	Mar. 3	32	·09
		May 18	June 5	19	May 7	June 22	47	·29	May 9	June 5	28	·05
Northants ..4	Wellingborough (Swanspool) ..	..	..	..	*17.xi.33*	*Jan. 1*	*46*	*·45*	..	..	..	..
		Feb. 4	Feb. 23	20	Jan. 19	Feb. 23	36	·18	Feb. 4	Feb. 23	20	·00
,, ...4	Peterborough (Abbeyfields) ..	..	..	..	Jan. 17	Feb. 23	38	·36	Jan. 31	Feb. 23	24	·11
		..	..	..	May 7	June 5	30	·28	May 17	June 5	20	·02
		..	..	..	..	..	..	..	June 22	July 11	20	·10
Cambridge ..2	Cambridge (Botanic Gardens).	..	..	..	Jan. 17	Feb. 27	42	·42	Feb. 4	Feb. 24	21	·06
		..	..	..	May 9	June 18	41	·39	..	..	..	..
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·05

TABLE VIII.—*Droughts and Dry Spells in* 1934—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Essex.....3	Shoeburyness (Great Wakering)	Feb. 9	Feb. 24	16	Jan. 17	Mar. 1	44	·43	Jan. 31	Feb. 24	25	·07
		May 17	June 4	19	May 9	June 22	45	·33	May 17	June 5	20	·01
		..	..	..	Oct. 7	Nov. 7	32	·28	Nov. 16	Nov. 30	15	·03
Suffolk 2	Haughley (Haughley House) .	Feb. 8	Feb. 23	16	Jan. 17	Feb. 24	39	·36	Feb. 1	Feb. 24	24	·03
		..	..	..	..	..	..	..	Mar. 21	Apr. 7	18	·02
		..	..	..	..	..	..	..	June 26	July 11	16	·01
		..	..	..	..	..	..	..	Nov. 15	Nov. 30	16	·04
Norfolk 1	Gorleston (C. Guard Station)..	Feb. 5	Feb. 23	19	Jan. 17	Feb. 24	39	·38	Jan. 31	Feb. 24	25	·07
		..	..	..	..	..	..	..	Mar. 20	Apr. 6	18	·03
		May 17	June 5	20	..	..	..	..	May 17	June 5	20	·00
		..	..	..	..	..	..	..	Nov. 15	Nov. 30	16	·03
,, ...4	Sporle.....	..	..	..	..	..	..	..	Feb. 5	Feb. 23	19	·05
		..	..	..	..	..	..	..	May 17	June 4	19	·05
Wiltshire....3	Larkhill (Sch. of Artillery) ...	..	..	..	Jan. 26	Mar. 5	39	·35	Jan. 27	Mar. 1	34	·14
		May 18	June 6	20	May 9	June 22	45	·32	May 16	June 6	22	·01
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·03
Dorsetshire ..3	Poole	Feb. 4	Feb. 22	19	Jan. 19	Mar. 1	42	·42	Jan. 31	Mar. 1	30	·03
		..	..	..	..	..	..	..	Mar. 25	Apr. 9	16	·02
		May 17	May 31	15	May 9	June 22	45	·29	May 17	June 20	35	·04
		June 3	June 20	18	June 28	July 31	34	·33	..	..	..	..
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·02
S. Devon....4	Holne (Church Park Cottage) .	Jan. 27	Feb. 11	16	Jan. 27	Feb. 28	33	·33	Jan. 27	Feb. 23	28	·01
		..	..	..	..	..	..	..	Mar. 22	Apr. 5	15	·10
		..	..	..	May 16	June 17	33	·26	May 18	June 4	18	·09
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·08
N. Devon ...2	Barnstaple (N. Dev. Athen'm.)	..	..	..	Jan. 26	Feb. 23	29	·29	Jan. 31	Feb. 23	24	·10
		..	..	..	May 18	June 20	34	·34	..	..	..	..
		..	..	..	June 27	July 30	34	·32	June 27	July 22	26	·08
,, ...3	Okehampton (Uplands).....	..	..	..	Jan. 27	Mar. 1	34	·33	Jan. 31	Feb. 23	24	·07
		June 28	July 12	15	..	..	..	..	June 28	July 19	22	·02
Cornwall....2	St. Austell (Trevarna)	Jan. 31	Feb. 23	24	Jan. 27	Feb. 28	33	·33	Jan. 27	Feb. 23	28	·01
		May 22	June 5	15	..	..	..	..	May 22	June 5	15	·00
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·06

TABLE VIII.—*Droughts and Dry Spells in* 1934—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Somerset ...1	Bath (Henrietta Park)	Feb. 4	Feb. 23	20	Jan. 26	Mar. 5	39	·28	Jan. 27	Feb. 23	28	·03
		June 2	June 18	17	May 9	June 22	45	·39	May 16	June 18	34	·05
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·01
,, 3	Angersleigh (Leigh Court)	..	..	..	Jan. 27	Mar. 3	36	·36	Jan 26	Feb. 23	29	·10
		May 20	June 6	18	May 8	June 22	46	·43	May 18	June 6	20	·01
		..	..	..	June 28	July 31	34	·29	June 28	July 23	26	·07
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·08
Hereford ...1	Ross-on-Wye	..	..	..	Jan. 19	Feb. 23	36	·26	Jan. 26	Feb. 23	29	·09
		May 23	June 18	27	May 7	June 22	47	·45	May 16	June 18	34	·03
Shropshire ..3	Bishops Castle (The Vicarage).	Jan. 31	Feb. 23	24	Jan. 28	Mar. 1	33	·31	Jan. 31	Feb. 23	24	·00
		..	..	..	..	..	..	..	Mar. 23	Apr. 9	18	·09
		May 26	June 13	19	May 18	June 18	32	·27	May 26	June 13	19	·00
,, ...4	Shifnal (Hatton Grange).....	Feb. 5	Feb. 23	19	..	..	..	..	Feb. 1	Feb. 23	23	·04
		..	..	..	May 16	June 18	34	·33	..	..	..	..
Staffordshire 5	Mayfield.....	..	..	..	May 17	June 20	35	·35	Feb. 8	Feb. 23	16	·01
		..	..	..	..	..	..	..	May 20	June 6	18	·07
Warwickshire1	Warwick Castle Gardens.....	..	..	..	*15.xi.33*	*Jan. 1*	*48*	*·47*	..	..	..	..
		Feb. 4	Feb. 22	19	Jan. 19	Feb. 23	36	·26	Feb. 4	Feb. 23	20	·01
		..	..	..	May 7	June 20	45	·43	May 24	June 18	26	·08
Leicestershire4	Leicester (Stoughton Drive)...	Feb. 5	Feb. 23	19	Jan. 26	Feb. 23	29	·23	Feb. 4	Feb. 23	20	·02
		..	..	..	May 17	June 20	35	·29	..	..	..	..
Lincolnshire 3	Horncastle.....	Feb. 5	Feb. 23	19	Jan. 18	Feb. 23	37	·37	Feb. 4	Feb. 23	20	·01
		..	..	..	..	..	..	..	May 17	June 6	21	·08
		..	..	..	..	.	..	..	June 23	July 11	19	·08
		..	..	..	..	..	..	..	Sept. 2	Sept. 18	17	·01
Nottingham- 5 shire.	Worksop (Hodsock).....	..	..	..	*27.xi.33*	*Jan. 2*	*37*	*·36*	.	..	..	..
		..	..	..	Jan. 19	Feb. 26	39	·38	Feb. 4	Feb. 23	20	·02
		May 21	June 5	16	..	..	..	..	May 17	June 5	20	·06
Cheshire 2	Northwich (Hunts Lock)	..	..	..	Jan. 19	Mar. 1	42	·40	Feb. 8	Feb. 23	16	·02
N. Lancs. ...5	Blackpool (Met. Observatory)	Feb. 8	Feb. 23	16	Jan. 19	Feb. 28	41	·40	Jan. 31	Feb. 28	29	·05
		..	..	..	..	..	..	..	Mar. 24	Apr. 8	16	·06
		..	..	..	..	..	..	..	Nov. 12	Nov. 26	15	·06
Yorks, W.R..8	Meltham (Harewood Lodge) ..	..	..	..	..	..	..	..	May 21	June 5	16	·05

TABLE VIII.—*Droughts and Dry Spells in* 1934—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Yorks. E.R. **3**	Hull (Pearson Park)	Feb. 4	Feb. 23	20	Jan. 18	Feb. 25	39	·38	Feb. 3	Feb. 25	23	·05
		..	..	..		..	..	..	May 17	June 5	20	·07
,, E.R. **4**	Filey Vicarage	Feb. 4	Feb. 24	21		..	..	..	Feb. 4	Feb. 25	22	·01
		..	..	..	..	..	..	..	Mar. 24	Apr. 8	16	·03
		June 25	July 11	17	..	..	..	..	June 23	July 11	19	·02
,, N.R. **1**	West Witton (Ivy House)	Feb. 9	Feb. 27	19	Jan. 27	Mar. 3	36	·30	Feb. 9	Feb. 27	19	·00
,, N.R. **2**	Felixkirk (Mount St. John) ...	..	..	..	..	..	..	..	Feb. 4	Feb. 25	22	·04
		..	..	..	..	..	..	..	May 20	June 5	17	·02
Durham **2**	Sunderland (W. Hendon Ho.) .	..	..	..	..	..	..	..	Feb. 8	Feb. 25	18	·02
		..	..	..	May 19	June 17	30	·22	May 19	June 5	18	·04
Northumber- **6** land.	Ilderton (Lilburn Tower Gdns.)	Feb. 8	Feb. 23	16	Jan. 19	Feb. 26	39	·39	Feb. 8	Feb. 26	19	·01
		..	..	..	..	..	..	.	May 20	June 4	16	·02
		June 27	July 11	15	..	..	..	..	June 27	July 11	15	·00
		..	..	..	..	..	..	..	Nov. 17	Dec. 1	15	·07
Cumberland .**1**	Geltsdale.....	..	..	..	Jan. 31	Feb. 28	29	·26	Feb. 8	Feb. 23	16	·02
Westmorland **2**	Grasmere (The Wray)	..	..	..	..	..	..	..	June 28	July 12	15	·04
Glamorgan .**6**	Treherbert (Tyn-y-waun)	..	..	..	Jan. 26	Feb. 23	29	·23	..	..	..	..
Carmarthen .**2**	Carmarthen (The Friary)	..	..	..	Jan. 26	Feb. 23	29	·17	..	..	..	..
		..	..	..	May 18	June 17	31	·31	May 21	June 4	15	·03
		June 28	July 14	17	June 27	July 29	33	·30	June 27	July 14	18	·02
Cardigan ...**3**	Lampeter (Falcondale)	..	..	..	..	..	..	..	Jan. 31	Feb. 23	24	·03
		..	..	..	June 27	July 27	31	·28	June 28	July 16	19	·08
Radnor **1**	Birmingham W W.	..	..	..	Jan. 26	Feb. 23	29	·15	Jan. 27	Feb. 23	28	·07
	(Tyrmynydd)	..	..	..	..	..	..	..	May 26	June 13	19	·04
Denbigh **2**	Denbigh (Garn)	..	..	..	May 19	June 17	30	·30	May 24	June 7	15	·02
		June 28	July 12	15	..	..	..	.	June 28	July 12	15	·00
Anglesey	Llanerchymedd (Ll'diarth Es.)	Feb. 8	Feb. 23	16	Jan. 20	Feb. 23	35	·34	Feb. 8	Feb. 23	16	·00
		..	..	..	..	..	..	..	May 26	June 13	19	·03
ISLE OF MAN		June 28	July 14	17	June 28	July 28	31	·30	June 28	July 14	17	·00
Isle of Man ..	Douglas (Borough Cemetery)..	..	..	..	Jan. 26	Feb. 23	29	·28	Feb. 8	Feb. 23	16	·02
		June 28	July 14	17	June 27	July 26	30	·24	June 28	July 18	21	·03
		..	..	..	..	..	..	..	Nov. 11	Nov. 26	16	·09

TABLE VIII.—*Droughts and Dry Spells in* 1934—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
CHANNEL ISLANDS												
Guernsey	St. Peter Port (Grange Road) .	Feb. 4	Feb. 23	20	Jan. 19	Mar. 1	42	·37	Jan. 26	Feb. 23	29	·04
		..	..	..	..	..	..	..	Mar. 25	Apr. 9	16	·03
		..	..	..	..	..	..	..	May 17	May 31	15	·01
		June 2	June 18	17	..	..	..	..	June 2	June 20	19	·02
		..	..	..	June 24	Aug. 4	42	·41	June 28	July 23	26	·04
		..	..	..	..	..	..	..	Nov. 16	Nov. 30	15	·12
SCOTLAND												
Wigtown ...3	Whithorn (Physgill).....	..	..	..	..	..	..	..	May 25	June 13	20	·06
		..	..	..	..	..	..	..	June 28	July 12	15	·02
Dumfries....3	Dumfries (Crichton R. Inst.) ..	Feb. 8	Feb. 23	16	Jan. 31	Feb. 28	29	·28	Feb. 8	Feb. 23	16	·00
		..	..	..	..	..	..	..	May 25	June 13	20	·09
Peebles 1	Edin. W.W. (Victoria Lodge) .	..	..	..	Jan. 31	Feb. 28	29	·21	Feb. 8	Feb. 23	16	·04
Berwick 4	Duns Castle.....	Feb. 8	Feb. 24	17	Jan. 18	Mar. 4	46	·45	Feb. 8	Feb. 26	19	·02
		..	..	..	..	..	..	..	May 21	June 4	15	·07
		..	..	..	..	..	..	..	June 27	July 11	15	·02
		..	..	..	..	..	..	..	Nov. 17	Dec. 2	16	·07
W. Lothian .2	Linlithgow (Preston House)...	..	..	..	Jan. 31	Feb. 28	29	·23	Feb. 8	Feb. 23	16	·03
		May 21	June 6	17	..	.	..	..	May 21	June 6	17	·00
		..	..	..	Oct. 30	Dec. 2	34	·34	.	..	..	..
Ayrshire 6	Maybole (Culzean Castle Gdns.)	June 27	July 13	17	..	..		..	June 27	July 13	17	·00
Buteshire ...3	Dougarie Lodge	June 28	July 12	15	..	..	..	..	June 28	July 13	16	·03
Argyllshire 8	Lochgilphead (Poltalloch)	May 28	June 13	17	..	..	..	..	May 28	June 13	17	·00
,, 14	Mull (Gruline)	..	..	..	..	..	..	..	May 29	June 13	16	·03
,, 14	Tiree.....	..	..	..	..	..	..	..	May 25	June 8	15	·02
Fifeshire 8	Leuchars (Aerodrome)	Feb. 8	Feb. 28	21	Jan. 18	Mar. 4	46	·31	Feb. 8	Feb. 28	21	·00
		..	..	..	..	..	..	..	Nov. 17	Dec. 2	16	·03
Perthshire..11	Aberfeldy (Dall Avon)	..	..	..	..	..	..	..	Feb. 9	Feb. 28	20	·02
		May 24	June 12	20	May 21	June 20	31	·29	May 24	June 14	22	·05
		..	..	..	..	..	..	..	June 23	July 11	19	·06
		..	..	..	Oct. 31	Dec. 2	33	·32	..	..	..	..

TABLE VIII.—*Droughts and Dry Spells in* 1934—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Kincardine .2	Stonehaven (Mains of Cowie)..	Feb. 9	Feb. 24	16	Jan. 17	Mar. 9	52	·47	Feb. 9	Feb. 24	16	·00
		..	..	..	..	..	..	..	May 25	June 12	19	·02
Aberdeen ...1	Balmoral Castle Gardens	..	..	..	..	..	..	..	Feb. 9	Feb. 24	16	·04
,, ..4	Peterhead (Forehill Works) ..	May 27	June 12	17	..	..	..	..	May 24	June 12	20	·05
Morayshire .2	Fochabers (Gordon Castle)..	..	..	..	..	..	..	..	May 27	June 12	17	·04
Inverness ..16	Fort William (The Factory)...	..	..	..	..	..	..	..	May 25	June 12	19	·05
,, ...18	Skye (Portree)	May 29	June 12	15	..	..	..	..	May 29	June 12	15	·00
Ross and 3 Cromarty	Fortrose.....	..	..	..	*20.xi.33*	*Jan. 2*	*44*	*·41*	..	..	..	..
		May 25	June 12	19	..	..	..	..	May 25	June 12	19	·00
		..	..	..	..	..	..	..	Nov. 9	Nov. 27	19	·04
,, ,, 7	Ullapool.....	May 29	June 12	15	..	..	..	..	May 28	June 12	16	·01
,, ,, 10	Stornoway (C. Guard Stn.)....	May 29	June 12	15	..	..	..	..	May 27	June 12	17	·04
Sutherland .1	Lairg	May 28	June 12	16	..	..	..	..	May 28	June 12	16	·00
Caithness ...3	Thurso (Buckies)	..	..	..	..	..	..	..	May 28	June 14	18	·02
IRELAND												
Co. Cork ...6	Dunmanway (The Rectory) ..	..	..	..	Jan. 25	Feb. 28	35	·27	Jan. 25	Feb. 22	29	·05
,, ..7	Glanmire (Lota Lodge)	Jan. 25	Feb. 23	30	Jan. 25	Feb. 28	35	·35	Jan. 25	Feb. 23	30	·00
		May 26	June 11	17	May 19	June 17	30	·29	May 19	June 11	24	·06
,, ..9	Mallow (Longueville).....	..	..	..	Jan. 25	Feb. 27	34	·23	Jan. 26	Feb. 23	29	·10
		..	..	..	..	..	..	..	May 22	June 11	21	·05
Co. Kerry ..3	Valentia Observatory	..	..	..	Jan. 25	Feb. 23	30	·25	Jan. 25	Feb. 8	15	·10
		May 26	June 11	17	..	..	..	..	May 21	June 12	23	·12
Co.Waterford 3	Waterford (Gortmore).....	Jan. 26	Feb. 10	16	Jan. 26	Mar. 3	37	·34	Jan. 26	Feb. 23	29	·01
		May 25	June 11	18	May 19	June 19	32	·28	May 19	June 17	30	·13
		..	..	..	..	..	..	..	Nov. 13	Nov. 29	17	·03
Co.Tipperary 1	Nenagh (Castle Lough)	..	..	..	Jan. 27	Feb. 27	32	·32	Feb. 4	Feb. 22	19	·12
,, 3	Cashel (Ballinamona)	Feb. 4	Feb. 22	19	Jan. 25	Feb. 28	35	·31	Jan. 25	Feb. 23	30	·10
		May 25	June 13	20	May 18	June 17	31	·21	May 19	June 13	26	·06
		June 28	July 12	15	..	..	..	..	June 28	July 12	15	·00

TABLE VIII.—*Droughts and Dry Spells in* 1934—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Co. Limerick 2	Foynes (Coolnanes)	..	..	..	Jan. 25	Feb. 27	34	·29	Jan. 27	Feb. 22	27	·11
		May 26	June 10	16	..	..	..	..	May 23	June 10	19	·04
		..	..	..	..	..	..	..	June 27	July 13	17	·03
Co. Wexford.4	Gorey (Courtown House)	Jan. 31	Feb. 23	24	Jan. 19	Feb. 23	36	·28	Jan. 26	Feb. 23	29	·01
		..	..	..	May 19	June 20	33	·33	..	..	..	..
		..	..	..	June 27	July 28	32	·29	..	..	..	..
Co. Leix 2	Abbey Leix (Blandsfort).....	Feb. 8	Feb. 23	16	Jan. 19	Feb. 28	41	·39	Feb. 4	Feb. 23	20	·03
		May 25	June 11	18	..	..	..	..	May 25	June 13	20	·01
Co. Dublin ..2	Dublin City (FitzWilliam Sq.).	Feb. 4	Feb. 23	20	Jan. 14	Mar. 8	54	·53	Jan. 19	Mar. 3	44	·05
		..	..	..	..	..	..	..	Nov. 15	Nov. 30	16	·03
Co. Meath ..4	Kells (Headfort).....	..	..	..	Jan. 19	Mar. 1	42	·42	Jan. 23	Feb. 23	32	·08
		..	..	..	..	..	..	..	June 28	July 12	15	·01
		..	..	..	..	..	..	..	Nov. 13	Nov. 29	17	·02
Co. West- 1 meath	Mullingar (Belvedere Ho.)	..	..	..	Jan. 23	Feb. 28	37	·36	Feb. 3	Feb. 23	21	·04
		..	..	..	..	..	..	..	Nov. 14	Nov. 29	16	·05
Co. Longford 2	Newtownforbes (C. Forbes Gds.).	..	..	..	Jan. 26	Feb. 28	34	·31	..	..	..	..
		June 29	July 13	15	..	..	..	..	June 29	July 13	15	·00
Co. Galway..3	Ballynahinch Castle.....	..	..	..	..	..	..	..	May 26	June 12	18	·02
Co. Mayo ...4	Mallaranny	May 25	June 12	19	..	..	..	..	May 22	June 13	23	·05
Co. Sligo ...2	Collooney (Markree Cas.)	May 25	June 8	15	..	..	..	..	May 25	June 8	15	·00
Co. Ferm'gh. 1	Newtownbutler (Crom Castle).	..	..	..	Jan. 23	Feb. 22	31	·27	Feb. 8	Feb. 22	15	·03
		..	..	..	..	..	..	..	June 28	July 15	18	·12
Co. Armagh .5	Armagh Observatory.....	..	..	..	Jan. 19	Feb. 28	41	·41	..	..	..	..
		May 25	June 12	19	..	..	..	..	May 25	June 12	19	·00
		..	..	..	..	..	..	..	Nov. 9	Nov. 29	21	·10
Co. Down ..2	Seaforde.....	..	..	..	Jan. 26	Mar. 10	44	·37	Jan. 26	Feb. 28	34	·09
		May 26	June 12	18	..	..	..	..	May 26	June 12	18	·00
		..	..	..	..	..	..	..	Nov. 13	Nov. 30	18	·04

4. RAIN SPELLS AND WET SPELLS IN 1934.

The definitions of the terms "rain spell" and "wet spell," as used in this section, are analogous to those of the terms "absolute drought" and "dry spell," which are used in the previous section. Thus :—

A Rain Spell is a period of at least 15 consecutive days to each of which is credited ·01 inch of rain or more.

A Wet Spell is a period of at least 15 consecutive days to each of which is credited ·04 inch of rain or more.

In other words, a *rain spell* contains at least 15 consecutive rain days, and a *wet spell* contains at least 15 consecutive wet days.

Table XI contains particulars of all rain spells* and wet spells* during 1934 which were reported from the 100 selected stations of Table V. Stations from which no rain or wet spells were reported are omitted from this table. The number of stations so omitted is 22. Tables IX and X give comparative statistics concerning the rain spells and wet spells since 1917. Similar details of rain spells are available back to 1903 and are given in *British Rainfall*, 1929, p. 30, and averages are therefore available for the 32 years, 1903 to 1934.

In 1934, the total number of rain spells at the 100 stations was 206 or 37 more than the average, and more than that recorded in any year back to 1927. The total number in 1934 was nearly four times that in the previous year, *viz.*, 57. The mean duration of the rain spells was 21 days, exactly the average. The mean rain per day during the rain spells was also exactly the average.

The longest rain spell continued for 58 days from September 15th to November 11th at Llanerchymedd in Anglesey. Rain spells occurred during 1934 at 78 stations or 8 more than the average.

Two stations recorded seven rain spells during the year, *viz.*, Mull (Gruline) and Stornoway.

* The precise procedure adopted in the allocation of rain spells or wet spells which cover parts of two years is set out in the footnote on p. 25, *British Rainfall*, 1926.

The total number of wet spells at the 100 stations was 66 or 15 more than the average. This was the largest number since 1930 and appreciably larger than the previous year when only 9 were recorded. The mean duration of the wet spells was 19 days, or exactly the average, while the mean rain per wet day was ·37 inch, also exactly the average. Wet spells occurred at 36 stations or 7 less than the average. One station recorded five wet spells, *viz.*, Mull (Gruline). The longest wet spell lasted for 31 days, from November 30th to December 30th at Valentia Observatory.

Of the 40 selected stations in England only 16 failed to record a rain spell during the year.

All stations in Wales and in Ireland and all but six in Scotland recorded at least one rain spell during the year. Over England and Wales rain-spells were confined mainly to the last three months of the year, although a few stations reported a rain spell during the first three weeks of March and others in southern Wales and Dartmoor at the end of July and first half of August. Nearly one half of all the rain spells at stations in England occurred during the first three weeks of December. A number of stations in Scotland, Ireland and Anglesey completed a rain spell which had commenced at the end of 1933. Over both Scotland and Ireland rain spells were most frequent during January, October, November and December.

Wet spells in England and Wales were confined entirely to the period September 15th to December 31st, and mainly occurred during December. In Ireland the most widespread wet spell was also that of December, which was recorded at six stations, while those of the first three weeks of January and the latter half of October were both recorded at four stations. No station in Scotland recorded a wet spell during December although rain spells occurred during that month at as many as ten out of the 28 stations in Scotland. The most widespread wet spells in Scotland were those during the first three weeks of January and during the latter part of September and part of October. The wet spells were much more uniformly distributed throughout the year in Scotland than elsewhere, although there were no wet spells at any of the 100 selected stations during either April or June.

In contrast with 1933, when the numbers of both rain spells and wet spells were unusually small, the year 1934 gave more than the average numbers. It was only in the unusually wet December, however, that the rain spells and wet spells during 1934 were more frequent than usual.

Table IX.—*Rain Spells* at 100 Stations*, 1917—1934.

Year.	No. of Rain Spells.	DURATION OF SPELLS				STATIONS WITH			
		Mean.		Longest					
		Days.	Mean rain per day.	Days.	Mean rain per day.	None.	1 or 2.	3 or 4.	5 or more
1917....	152	22	·28	52	·19	30	48	17	5
1918....	186	23	·30	56	·21	21	51	19	9
1919....	143	20	·26	46	·31	29	53	14	4
1920....	165	20	·25	45	·24	32	45	12	11
1921....	184	22	·29	45	·25	31	36	25	8
1922....	170	21	·26	49	·35	30	42	23	5
1923....	222	23	·26	89	·31	17	47	21	15
1924....	168	19	·25	54	·23	33	41	18	8
1925....	176	19	·29	60	·34	27	43	23	7
1926....	194	20	·28	45	·14	21	37	38	4
1927....	206	19	·26	42	·19	21	43	26	10
1928....	202	24	·27	52	·27	28	43	21	8
1929....	157	21	·32	57	·27	19	58	15	8
1930....	174	23	·30	72	·42	32	36	29	3
1931....	121	20	·25	56	·25	49	33	12	6
1932....	150	20	·29	36	·29	37	37	20	6
1933....	57	18	·25	31	·25	65	31	2	2
1934....	206	21	·27	58	·21	22	45	20	13
Average 1903–34	169	21	·27	52	·27	30	42	20	8

* At least ·01 inch each day, 15 days or more.

Table X.—*Wet Spells** at 100 Stations*, 1917—1934.

Year.	Number of Wet Spells.	Mean Duration.		Longest Spell.		STATIONS WITH			
		Days.	Mean rain per day.	Days.	Mean rain per day.	None.	1 or 2.	3 or 4.	5 or more
			in.		in.				
1917....	55	19	·35	31	·46	67	28	3	2
1918....	49	21	·40	36	·44	70	26	4	0
1919....	49	17	·29	33	·34	66	29	5	0
1920....	47	18	·37	31	·61	75	17	8	0
1921....	59	20	·41	29	·32	69	22	9	0
1922....	65	20	·36	42	·28	64	29	7	0
1923....	62	20	·36	42	·39	73	17	8	2
1924....	30	18	·34	24	·37	79	19	2	0
1925....	55	17	·42	31	·18	67	27	6	0
1926....	60	19	·37	30	·48	62	32	6	0
1927....	39	18	·35	24	·29	74	22	4	0
1928....	87	20	·40	39	·29	62	21	17	0
1929....	59	19	·41	33	·40	59	36	4	1
1930....	71	21	·40	35	·51	61	30	9	0
1931....	20	19	·31	32	·44	87	10	3	0
1932....	44	19	·41	30	·50	77	16	7	0
1933....	9	16	·34	20	·49	94	5	1	0
1934....	66	19	·37	31	·47	64	29	5	2
Average 1917–34	51	19	·37	32	·40	71	23	6	0

**At least ·04 inch each day, 15 days or more.

Table XI.—*Rain Spells and Wet Spells in* 1934.

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
ENGLAND AND WALES				days	in.			days	in.		in.
Hampshire..1	Ventnor (Royal National Hos.)	Dec. 1	Dec. 19	19	6·09	..	..	..	..	Dec. 14	·81
,, ..7	Selborne (The Wakes)	Dec. 1	Dec. 19	19	8·32	Dec. 1	Dec. 15	15	7·34	Dec. 6	·87
Berkshire ..5	Upton (Manor House)	Dec. 1	Dec. 19	19	3·74	..	..	..	..	Dec. 6	·50
Wiltshire ...3	Larkhill (Sch. of Artillery).....	Dec. 1	Dec. 19	19	5·95	..	..	..	..	Dec. 9	·78
Dorsetshire .3	Poole	Dec. 1	Dec. 19	19	6·50	Dec. 1	Dec. 19	19	6·50	Dec. 1	·71
S. Devon ...4	Holne (Church Park Cottage) .	Sept. 16	Sept. 30	15	4·22	..	..	..	..	Sept. 26, 30	·58
		Nov. 27	Dec. 31	35	25·10	Dec. 11	Dec. 31	21	14·45	Dec. 1	2·22
N. Devon...2	Barnstaple (N. Dev. Athenæum)	29.xii.33	Jan. 20	23	3·28	..	..	..	..	Jan. 11	·75
		Sept. 16	Oct. 1	16	2·02	..	..	..	..	Sept. 19	·31
		Nov. 30	Dec. 31	32	8·39	..	..	..	..	Dec. 5	·80
,, ...3	Okehampton (Uplands)	July 26	Aug. 12	18	4·75	..	..	..	..	Aug. 5	1·00
		Sept. 16	Oct. 9	24	5·97	..	..	..	..	Oct. 4	·92
		Oct. 11	Nov. 2	23	3·86	..	..	..	..	Oct. 25	·80
		Dec. 1	Dec. 31	31	15·87	Dec. 1	Dec. 19	19	11·88	Dec. 8	2·14
Cornwall ...2	St. Austell (Trevarna)	Sept. 16	Sept. 30	15	3·07	..	..	..	..	Sept. 22	·55
		Nov. 30	Dec. 31	32	13·04	Dec. 1	Dec. 28	28	12·71	Dec. 1	1·48
Somerset ...1	Bath (Henrietta Park)	Dec. 1	Dec. 15	15	3·72	..	..	..	..	Dec. 1	·52
Hereford ...1	Ross-on-Wye	Dec. 1	Dec. 19	19	4·22	..	..	..	..	Dec. 7	·54
Shropshire ..3	Bishops Castle (The Vicarage) .	Dec. 1	Dec. 19	19	3·73	..	..	..	..	Dec. 8	·70
,, ..4	Shifnal (Hatton Grange)	Mar. 9	Mar. 24	16	1·67	..	..	..	..	Mar. 11	·25
Staffordshire 5	Mayfield	Oct. 19	Nov. 3	16	1·11	..	..	..	..	Oct. 25	·22
		Dec. 1	Dec. 20	20	3·82	..	..	..	..	Dec. 4	·69

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1934—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
ENGLAND AND WALES —(*con.*).				days	in.			days	in.		in.
Warwickshire 1	Warwick Castle Gardens	Dec. 1	Dec. 19	19	3·15	..	..	..	..	Dec. 6	·53
Nottingham 5	Worksop (Hodsock)	Mar. 4	Mar. 20	17	2·42	..	..	..	..	Mar. 12	·50
Cheshire ..2	Northwich (Hunts Lock)	Oct. 13	Nov. 3	22	2·84	..	..	..	..	Nov. 1	·67
N. Lancs. ..5	Blackpool (Met. Observatory)..	Oct. 19	Nov. 3	16	3·26	..	..	..	..	Oct. 23	·67
Yorks, W.R. 8	Meltham (Harewood Lodge) ..	Mar. 4	Mar. 20	17	4·13	..	..	..	..	Mar. 15	·71
		Dec. 11	Dec. 31	21	3·02	..	..	..	..	Dec. 28	·50
Yorks, E.R. 4	Filey Vicarage	Dec. 1	Dec. 19	19	3·02	..	..	..	..	Dec. 6	·50
Yorks, N.R. 2	Felixkirk (Mount St. John) ...	Nov. 2	Nov. 17	16	2·13	..	..	..	..	Nov. 9	·85
		Dec. 1	Dec. 18	18	3·75	..	..	..	..	Dec. 4	·64
Durham ...2	Sunderland (W. Hendon Ho.)..	Mar. 5	Mar. 20	16	2·45	..	..	..	..	Mar. 10	·60
		Dec. 1	Dec. 15	15	2·10	..	..	..	..	Dec. 4	·56
Cumberland 1	Geltsdale.....	Oct. 12	Oct. 30	19	4·43	..	..	..	..	Oct. 29	·84
Westmorland 2	Grasmere (The Wray)	Mar. 1	Mar. 23	23	6·53	..	..	..	..	Mar. 16	1·32
		April 9	April 28	20	5·64	..	..	..	..	April 12, 23	·85
		Sept. 15	Oct. 1	17	10·64	..	..	..	..	Sept. 30	2·96
		Oct. 3	Oct. 30	28	15·62	..	..	..	..	Oct. 25	1·88
		Dec. 1	Dec. 23	23	11·37	Dec. 1	Dec. 20	20	11·07	Dec. 17	1·50
Glamorgan 6	Treherbert (Tyn-y-waun).....	July 28	Aug. 11	15	7·08	..	..	..	..	Aug. 5	1·82
		Sept. 22	Oct. 7	16	9·69	..	..	..	..	Oct. 6	2·55
		Oct. 13	Oct. 27	15	5·47	..	..	..	..	Oct. 25	1·44
		Dec. 1	Dec. 31	31	23·36	Dec. 1	Dec. 19	19	16·14	Dec. 1	2·23

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more

Table XI.—*Rain Spells and Wet Spells in* 1934—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
ENGLAND AND WALES —(*con.*).				days	in.			days	in.		in.
Carmarthen 2	Carmarthen (The Friary)	Sept. 21	Oct. 7	17	4·51	Sept. 21	Oct. 7	17	4·51	Sept. 30	·83
		Oct. 14	Nov. 3	21	3·44	..	..	..	..	Nov. 2	·52
		Dec. 1	Dec. 19	19	8·45	Dec. 1	Dec. 19	19	8·45	Dec. 1	1·70
Cardigan ...3	Lampeter (Falcondale)	July 28	Aug. 12	16	4·53	..	..	..	.	Aug. 1	·73
		Sept. 16	Oct. 10	25	6·14	Sept. 16	Oct. 1	16	4·08	Oct. 3	·84
		Oct. 12	Nov. 3	23	6·17	..	..	..	..	Oct. 25	1·06
		Dec. 1	Dec. 22	22	9·27	Dec. 1	Dec. 19	19	9·10	Dec. 8	1·67
Radnor.....1	Birmingham W.W. (Tyrmynydd)	July 25	Aug. 12	19	6·63	..	..	..	..	Aug. 5	1·30
		Sept. 15	Nov. 5	52	11·08	Oct. 19	Nov 4	17	4·00	Oct. 25	·89
Denbigh ...2	Denbigh (Garn)	Mar. 4	Mar. 24	21	2·37	..	..	..	..	Mar. 14	·32
		Oct. 19	Nov. 2	15	2·90	..	..	..	..	Nov. 1	·64
Merioneth ..4	Dolgelley (Bontddu)	Sept. 15	Oct. 1	17	4·00	..	..	..	..	Sept. 30	·89
		Oct. 12	Nov. 3	23	8·54	Oct. 17	Nov. 1	16	6·98	Oct. 20	1·90
Anglesey ...	Llanerchymedd (Ll'diarth Es.).	29.xii.33	Jan. 23	26	3·58	..	..	..	..	Jan. 7	·55
		Sept. 15	Nov. 11	58	12·47	Sept. 15	Oct. 8	24	4·65	Oct. 23	1·04
						Oct. 12	Nov. 5	25	5·80		
		Nov. 27	Dec. 31	35	9·10	Dec. 1	Dec. 19	19	6·34	Dec. 28	1·02
ISLE OF MAN											
Isle of Man .	Douglas (Borough Cemetery) ..	Oct. 12	Nov. 3	23	4·99	..	..	..	..	Oct. 24	1·10
		Dec. 1	Dec. 15	15	6·87	Dec. 1	Dec. 15	15	6·87	Dec. 8	·98

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1934—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
CHANNEL ISLANDS				days	in.			days	in.		in.
Guernsey	St. Peter Port (Grange Road)..	Oct. 27	Nov. 16	21	6·05	..	..	..	..	Nov. 10	1·28
		Dec. 1	Dec. 19	19	6·69	..	..	..	..	Dec. 5	·81
SCOTLAND											
Wigtown ...3	Whithorn (Physgill)	Oct. 12	Nov. 3	23	4·23	Oct. 19	Nov. 3	16	3·37	Oct. 24	·83
		Nov. 30	Dec. 15	16	5·14	..	..	..	..	Dec. 8	1·24
Dumfries ...3	Dumfries (Crichton R. Inst.)...	29.xii.33	Jan. 18	21	4·39	..	..	..	..	Jan. 16	·80
Peebles 1	Edin. W.W. (Victoria Lodge) ..	27.xii.33	Jan. 18	23	7·09	..	..	..	..	Jan. 9	1·10
		July 15	Aug. 2	19	2·71	..	..	..	..	Aug. 2	·53
		Dec. 1	Dec. 15	15	4·05	..	..	..	..	Dec. 8	1·13
Lanarkshire 5	Strathaven (Dungavel).....	29.xii.33	Jan. 18	21	6·96	Jan. 3	Jan. 17	15	5·66	Jan. 16	·84
		July 12	Aug. 3	23	4·13	..	..	..	..	July 21	·56
		Oct. 16	Oct. 30	15	5·75	Oct. 16	Oct. 30	15	5·75	Oct. 30	1·19
		Nov. 28	Dec. 20	23	3·59	..	..	..	..	Dec. 4	·59
Ayrshire ...6	Maybole (Culzean Castle).....	29.xii.33	Jan. 19	22	5·09	..	..	..	..	Jan. 16	·71
		Oct. 16	Oct. 30	15	3·29	..	..	..	..	Oct. 24	·64
Renfrew ...3	Greenock (Prospect Hill)	29.xii.33	Jan. 18	21	9·74	29.xii.33	Jan. 17	20	9·72	Jan. 9	1·48
		Sept. 15	Sept. 30	16	4·53	..	..	..	..	Sept. 25	1·49
		Dec. 6	Dec. 21	16	3·93	..	..	..	..	Dec. 8	·91
Buteshire ..3	Dougarie Lodge	29.xii.33	Jan. 22	25	4·87	..	..	..	..	Jan. 16	·85
		Dec. 6	Dec. 20	15	3·89	..	..	..	..	Dec. 8	·70

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1934—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
SCOTLAND —(*con.*).				days	in.			days	in.		in.
Argyllshire **8**	Lochgilphead (Poltalloch)	29.xii.33	Jan. 13	16	5·36	29.xii.33	Jan. 13	16	5·36	Jan. 3	·90
		May 5	May 21	17	4·28	May 5	May 21	17	4·28	May 6	·80
		Sept. 30	Oct. 14	15	4·81	Sept. 30	Oct. 14	15	4·81	Oct. 3	1·30
		Oct. 16	Oct. 31	16	6·02	Oct. 16	Oct. 31	16	6·02	Oct. 25	1·43
,, **14**	Islay (Eallabus)	30.xii.33	Jan. 19	21	5·81	30.xii.33	Jan. 13	15	4·70	Jan. 16	·79
		July 12	Aug. 6	26	3·94	July 13	Aug. 4	23	3·82	Aug. 1	·43
		Sept. 14	Oct. 14	31	7·04	..	..	..	..	Sept. 25	1·26
		Oct. 16	Nov. 4	20	7·72	..	..	..	..	Oct. 25	1·10
		Dec. 7	Dec. 23	17	3·23	..	..	..	..	Dec. 14	·68
,, **14**	Mull (Gruline)	21.xii.33	Jan. 22	33	15·09	29.xii.33	Jan. 13	16	10·11	Jan. 21	1·43
		April 10	April 27	18	5·13	..	..	..	..	April 14	·79
		May 4	May 24	21	4·33	May 5	May 21	17	4·09	May 6	·98
		July 12	Aug. 4	24	6·33	July 14	Aug. 4	22	6·15	Aug. 4	1·10
		Aug. 27	Sept. 11	16	5·71	..	..	..	..	Sept. 7	1·23
		Sept. 14	Nov. 4	52	23·68	Sept. 15	Sept. 30	16	8·22	Sept. 25	1·83
						Oct. 2	Oct. 29	28	13·99		
		Dec. 6	Dec. 21	16	6·04	..	..	..	..	Dec. 8	1·29
,, **14**	Tiree	29.xii.33	Jan. 13	16	3·70	29.xii.33	Jan. 13	16	3·70	Jan. 6	·44
		July 13	Aug. 4	23	4·03	..	..	..	..	July 16	·37
		Sept. 15	Nov. 7	54	12·04	Oct. 19	Nov. 7	20	4·22	Oct. 29	1·06
Perthshire **11**	Aberfeldy (Dall Avon)	31.xii.33	Jan. 14	15	4·86	..	..	..	..	Jan. 12	·70
		April 10	April 26	17	2·77	..	..	..	..	April 11	·60
		Dec. 6	Dec. 20	15	4·50	..	..	..	..	Dec. 8	1·22

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1934—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
SCOTLAND —(*con.*).				days	in.			days	in.		in.
Aberdeen ..1	Balmoral (Castle Gardens).....	26.xii.33	Jan. 14	20	2·37	..	..	..	..	Jan. 11	·61
		Mar. 29	April 17	20	4·70	..	..	..	..	April 11	·77
		Dec. 2	Dec. 19	18	3·76	..	..	..	..	Dec. 8	·85
,, ..4	Peterhead (Forehill Works) ...	Oct. 28	Nov. 16	20	3·71	..	..	..	..	Nov. 7	·50
Inverness ..3	Cluny Castle.....	29.xii.33	Jan. 14	17	5·86	29.xii.33	Jan. 14	17	5·86	Jan. 5	·83
,, ..16	Fort William (The Factory) ...	24.xii.33	Jan. 18	26	13·80	29.xii.33	Jan. 13	16	11·41	Jan. 3	2·06
		May 5	May 24	20	4·80	..	..	..	..	May 19	·70
		July 20	Aug. 4	16	4·96	..	..	..	..	Aug. 4	·80
		Sept. 15	Sept. 30	16	6·67	Sept. 15	Sept. 30	16	6·67	Sept. 25	2·06
		Oct. 2	Oct. 29	28	11·32	..	..	..	..	Oct. 26	1·06
		Nov. 17	Dec. 4	18	3·72	..	..	..	..	Dec. 3	·66
,, .18	Skye (Portree)	29.xii.33	Jan. 13	16	8·31	29.xii.33	Jan. 13	16	8·31	29.xii.33	1·24
		Feb. 18	Mar. 7	18	5·54	Feb. 18	Mar. 7	18	5·54	Mar. 1	1·03
		July 20	Aug. 4	16	3·94	July 20	Aug. 4	16	3·94	July 27	·55
		Sept. 14	Oct. 1	18	8·84	Sept. 14	Oct. 1	18	8·84	Sept. 15	1·02
		Oct. 3	Nov. 7	36	16·24	Oct. 13	Nov. 7	26	13·33	Nov. 3	1·79
		Nov. 16	Dec. 3	18	5·60	..	..	..	..	Dec. 1	1·84
Ross and Cromarty 7	Ullapool	Jan 2	Jan. 20	19	6·06	Jan. 2	Jan. 20	19	6·06	Jan. 15	·68
		July 20	Aug. 3	15	3·74	..	..	..	..	July 22	1·00
		Aug. 7	Aug. 25	19	3·41	..	..	..	..	Aug. 10	·69
		Sept. 18	Nov. 6	50	12·55	Oct. 3	Oct. 23	21	4·96	Oct. 26	1·05

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* **1934**—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
SCOTLAND —(*con.*)				days	in.			days	in.		in.
Ross and Cromarty **10**	Stornoway (C. Guard Stn.)	29.xii.33	Jan. 23	26	6·11	29.xii.33	Jan. 20	23	5·80	Jan. 3	·56
		Feb. 18	Mar. 7	18	3·27	..	..	..	..	Mar. 1	·85
		April 12	April 27	16	2·31	..	..	..	..	April 12	·43
		July 20	Aug. 4	16	3·21	..	..	..	..	July 30	·63
		Sept. 14	Oct. 9	26	4·85	Sept. 15	Oct. 1	17	3·68	Sept. 28	·43
		Oct. 25	Nov. 11	18	4·21	..	..	..	..	Oct. 25	·96
		Nov. 25	Dec. 15	21	2·56	..	..	..	..	Dec. 9	·50
Sutherland..**1**	Lairg	29.xii.33	Jan. 12	15	2·10	..	..	..	..	Jan. 4	·41
,, ..**5**	Loch More (Achfary)	27.xii.33	Jan. 20	25	6·62	..	..	..	..	Jan. 7	·69
		Jan. 25	Feb. 11	18	6·72	..	..	..	..	Feb. 10	·99
		May 5	May 24	20	5·48	May 7	May 22	16	5·10	May 13	1·08
		July 24	Aug. 25	33	11·49	Aug. 8	Aug. 25	18	7·20	Aug. 11	1·26
		Sept. 29	Oct. 23	25	11·96	Sept. 29	Oct. 20	22	10·93	Oct. 11	2·36
Caithness ..**3**	Thurso (Buckies)	Oct. 25	Nov. 10	17	3·85	..	..	..	..	Nov. 1	·54
IRELAND											
Co. Cork...**6**	Dunmanway (The Rectory)	21.xii.33	Jan. 18	29	8·55	31.xii.33	Jan. 18	19	6·61	Jan. 9	1·43
		Nov. 28	Dec. 31	34	13·09	Nov. 28	Dec. 27	30	12·21	Dec. 3,25	1·16

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1934—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
IRELAND —(*con.*).				days	in.			days	in.		in.
Co. Cork ...7	Glanmire (Lota Lodge)	24.xii.33	Jan. 18	26	5·50	..	..	..	..	Jan. 10	·89
		April 12	April 27	16	2·79	..	..	..	..	April 13	1·12
		Nov. 29	Dec. 30	32	9·03	..	..	..	..	Dec. 3	·83
,, ..9	Mallow (Longueville)	27.xii.33	Jan. 18	23	4·65	..	..	..	..	Jan. 9	·92
		April 12	April 27	16	3·41	..	..	..	..	April 13	1·42
		Aug. 15	Sept. 4	21	1·79	..	..	..	..	Aug. 27	·43
		Oct. 17	Nov. 5	20	3·27	..	..	..	..	Oct. 24	1·58
		Dec. 10	Dec. 31	22	5·18	..	..	..	..	Dec. 14	·71
Co. Kerry ..3	Valentia Observatory	21.xii.33	Jan. 26	37	9·24	Jan. 3	Jan. 24	22	6·52	Jan. 9	·92
		Feb. 28	Mar. 18	19	4·99	..	..	..	..	Mar. 4	·91
		April 12	April 27	16	3·09	..	..	..	..	April 13	1·04
		Oct. 12	Nov. 3	23	6·65	..	..	..	..	Oct. 24	3·33
		Nov. 28	Dec. 31	34	14·57	Nov. 30	Dec. 30	31	14·53	Dec. 21	1·20
Co. Waterford.....3	Waterford (Gortmore)	29.xii.33	Jan. 14	17	3·15	..	..	..	..	Jan. 13	·65
		Mar. 8	Mar. 23	16	2·64	..	..	..	..	Mar. 9	·64
		April 11	April 25	15	1·80	..	..	..	..	April 13	·70
		Nov. 30	Dec. 18	19	5·84	Dec. 3	Dec. 18	16	4·92	Dec. 3	·96
Co. Tipperary 1	Nenagh (Castle Lough)	July 27	Aug. 12	17	3·45	..	..	..	..	Aug. 1	1·51
		Oct. 18	Nov. 3	17	3·16	..	..	..	..	Oct. 24	1·35
		Nov. 30	Dec. 31	32	7·38	..	..	..	..	Dec. 4	·71
,, ...3	Cashel (Ballinamona)	Jan. 3	Jan. 18	16	3·07	..	..	..	..	Jan. 10	·49
		July 23	Aug. 6	15	2·81	..	..	..	..	Aug. 1	·86

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1934—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a day during Rain Spells	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
IRELAND —(*con.*).				days	in.			days	in.		in.
Co. Limerick 2	Foynes (Coolnanes)	Jan. 3	Jan. 19	17	4·58	..	..	..	..	Jan. 12	·62
		July 23	Aug. 6	15	2·50	..	..	..	..	July 28	·56
		Oct. 12	Oct. 29	18	2·88	..	..	..	..	Oct. 24	1·08
		Nov. 30	Dec. 18	19	3·77	..	..	..	..	Dec. 3	·58
Co. Wexford 4	Gorey (Courtown House)	Jan. 3	Jan. 18	16	3·31	..	..	..	..	Jan. 13	·78
		Sept. 25	Oct. 10	16	4·20	..	..	..	..	Sept. 25	·77
Co. Leix ...2	Abbey Leix (Blandsfort)	Nov. 30	Dec. 15	16	4·75	..	..	..	..	Dec. 4	1·75
Co. Dublin .2	Dublin City (FitzWilliam Sq.) .	Dec. 1	Dec. 15	15	3·05	..	..	..	..	Dec. 4	·90
Co. Meath ..4	Kells (Headfort)	April 7	April 27	21	2·11	..	..	..	..	April 11	·35
Co. Westmeath .1	Mullingar (Belvedere Ho.)	Oct. 12	Oct. 27	16	2·95	..	..	..	..	Oct. 24	1·55
Co. Longford 2	Newtownforbes (C. Forbes Gds.)	Nov. 30	Dec. 18	19	2·78	..	..	..	..	Dec. 3	·36
Co. Galway .3	Ballynahinch Castle	24.xii.33	Jan. 18	26	9·42	28.xii.33	Jan. 18	22	8·02	26.xii.33	·86
		Aug. 26	Sept. 11	17	4·13	..	..	..	..	Sept. 6	·90
		Sept. 14	Sept. 30	17	7·30	..	..	..	..	Sept. 14	1·04
		Oct. 2	Nov. 14	44	11·79	Oct. 18	Nov. 3	17	5·71	Oct. 24	1·36
		Nov. 30	Dec. 22	23	6·90	Nov. 30	Dec. 18	19	6·22	Dec. 11	·98
Co. Mayo ..4	Mallaranny	Feb. 23	Mar. 19	25	4·54	Feb. 23	Mar. 17	23	4·41	Mar. 14	·62
		Oct. 12	Nov. 10	30	9·55	Oct. 19	Nov. 9	22	8·76	Oct. 24	2·14
		Nov. 30	Dec. 31	32	8·63	Nov. 30	Dec. 20	21	5·58	Dec. 11	·50
Co. Sligo ...2	Collooney (Markree Cas.)	29.xii.33	Jan. 22	25	4·84	..	..	..	..	Jan. 9	·51
		Sept. 14	Oct. 10	27	5·24	Sept. 14	Sept. 30	17	4·08	Sept. 16	·94
		Oct. 12	Nov. 4	24	5·72	..	..	..	..	Oct. 24	1·79

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1934—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
IRELAND —(*con.*).				days	in.			days	in.		in.
Co. Ferm'gh **1**	Newtownbutler (Crom Castle) .	29.xii.33	Jan. 23	26	4·65	..	..	..	..	Jan. 16	·50
		Feb. 23	Mar. 12	18	1·35	..	..	..	..	Mar. 1	·17
		April 7	April 25	19	2·31	..	..	..	..	April 13	·44
		July 19	Aug. 6	19	2·69	..	..	..	..	Aug. 1	·72
		Sept. 14	Sept. 30	17	4·02	..	..	..	..	Sept. 25	·68
		Nov. 30	Dec. 31	32	5·62	..	..	..	..	Dec. 25	·70
Co. Armagh **5**	Armagh Observatory	July 23	Aug. 6	15	3·42	..	..	..	..	Aug. 1	1·09
Co. Down...**2**	Seaforde	July 23	Aug. 7	16	3·45	..	..	..	..	Aug. 1	·68
		Dec. 1	Dec. 15	15	4·90	Dec. 1	Dec. 15	15	4·90	Dec. 4	·83
Co. Antrim .**5**	Ballymena (Harryville)	Oct. 13	Nov. 5	24	4·94	Oct. 19	Nov. 5	18	4·34	Oct. 24	1·50
		Nov. 30	Dec. 31	32	5·91	..	..	..	..	Dec. 25	·77
Co. Tyrone .**3**	Omagh (Edenfel)	29.xii.33	Jan. 22	25	5·84	..	..	..	..	Jan. 16	·78
		April 6	April 26	21	2·35	..	..	..	..	April 11	·39
		Sept. 14	Sept. 29	16	4·94	..	..	..	..	Sept. 21	1·25
		Oct. 2	Oct. 16	15	1·81	..	..	..	..	Oct. 6	·34
		Oct. 18	Nov. 8	22	4·79	Oct. 18	Nov. 2	16	4·29	Oct. 23	1·59
		Nov. 30	Dec. 19	20	3·20	..	..	..	..	Dec. 14	·58
Co. Donegal **2**	Buncrana Rectory	27.xii.33	Jan. 23	28	4·83	Jan. 3	Jan. 19	17	3·81	Jan. 6	·65
		Feb. 23	Mar. 12	18	2·49	..	..	..	..	Mar. 7	·37
		April 3	April 26	24	2·86	..	..	..	..	April 12	·46
		July 22	Aug. 6	16	2·89	July 22	Aug. 6	16	2·89	Aug. 1	·65
		Sept. 14	Sept. 29	16	4·30	..	..	..	..	Sept. 28	·76
		Oct. 12	Nov. 8	28	6·74	..	..	..	..	Oct. 24	1·05

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

5. DURATION OF RAINFALL IN 1934.

The duration of rainfall is obtained from measurements of the records of autographic gauges. On these records the amount of rain is measured vertically and the duration of the rainfall is measured horizontally, in accordance with scales which are printed upon the charts before they are placed in position in the gauges. The pen of an autographic gauge writes a horizontal line on the record during such time as no rain is falling, and it writes a more or less sloping line whenever rain is passing into the receiver of the gauge.

The duration of rainfall discussed in this section is defined as the length of time during which rain is falling at a rate not less than 0·1 mm. per hour, *i.e.*, ·004 in. per hour. The tabulations at all the official stations are made according to this convention, which was first brought into general use in *British Rainfall*, 1920. It was adopted because during very light rainfall it was found to be almost impossible to decide upon the exact point on the record where the change from " no rain " to " rain " occurred. By taking a definite limiting slope of the trace as the criterion this difficulty is to a great extent avoided and it is found possible to obtain comparable measurements from different gauges and from different observers. The limit of 0·1 mm. (·004 in.) per hour is low enough to ensure that no fall of practical importance is excluded.

The list of stations reporting duration of rainfall for 1934 is given in Tables XII and XIII. These tables have been arranged in this volume so as to give information of the total duration of rainfall and of the mean rate of rainfall for the same stations at one opening. Additional records are included from Eton W.W.; Cray near Henley-on-Thames maintained by Mr. B. E. Dunbar Kilburn; Princetown Prison; Chagford (Metherall) by the Torquay W.W.; Accrington by the Borough Engineer; Nelson by the Medical Officer of Health; Langsett Moor by the Sheffield W.W.; Billingham-on-Tees by the Urban District Council; Cornaigmore School in Tiree; and Dyce (Craibstone) by the Aberdeen and North of Scotland College of Agriculture.

The duration records for monthly periods commencing at midnight for the four Observatories Kew, Eskdalemuir, Aberdeen and Valentia have been omitted, since these records are to be found in the Observatories Year Book (where hourly values are also given) and since the values differ but little from those for periods commencing at 7h. The records for Eltham, Worthy Down and Erdington are incomplete for 1934, while of the three records at Plymouth the values for the Hoe have been omitted. For 1934 the net gain is four stations in England and two in Scotland.

The list of stations reporting duration of rainfall for 1934 is practically the same as that for last year. The distribution of the stations in Tables XII and XIII is shown on the map (although Lerwick in the Shetland Islands and eight stations in the London area have not been included). The distribution will be improved by an additional gauge which was set up at Bala in June, 1934, by the Engineer to the Dee Catchment Board.



Table XII sets out the duration of rainfall expressed in hours at 92 stations in the British Isles, for each month and for the whole

year of 1934. The station with the highest aggregate duration for the year is Glenleven (Blackwater Dam) with a duration of 1,653 hours. This period is equivalent to about 65 days, or nearly $4\frac{1}{2}$ hours per day. Other stations with high aggregates were Eskdalemuir, Cray Reservoir (Brecon) and Snowdon with 1264, 1253 and 1208 hours respectively. The smallest aggregates for the year occurred at stations near London, where rather less than 300 hours, or less than one hour per day, were recorded.

The only months during which no station recorded as many as 100 hours of rainfall were June, July and November, while values exceeding 200 hours occurred in January, October and December. In *January* the duration exceeded 200 hours at Eskdalemuir Observatory and Glenleven (Blackwater Dam), the actual values being 236 and 232 hours respectively. About half the stations reported less than ten hours of rain during *February*, the duration at Calshot, Eastbourne, Leuchars and Eton being only 0·3, 1·2, 1·3 and 1·4 hours respectively. *March* gave 118 hours at Cray Reservoir in Breconshire and 117 hours at Eskdalemuir Observatory. Durations exceeding 100 hours occurred in *April* at stations in Devon, South Wales, Central Scotland, and Northern Ireland. *May* gave 122 hours at Glenleven (Blackwater Dam). The values for *June* varied from 66 hours at Valentia, in the south-west of Ireland, to 8 hours at Edgware, and for *July* from 67 hours at Lerwick, in the Shetland Islands, to 5 hours at stations to the north of London. The largest values for *August*, *September* and *October* all occurred at Glenleven (Blackwater Dam) of 141, 166 and 239 hours respectively. The distribution in *November* was abnormal, the largest monthly total occurring at Petersfield of 88 hours, the four days the 8th, 9th, 10th and 14th contributing 62·7 hours. In *December* the duration at Princetown was 307 hours and at Cray Reservoir 292 hours, while Petersfield reported a duration of 202 hours. At Princetown the mean duration for the first 8 days of December was 15 hours and at Cray Reservoir $14\frac{1}{2}$ hours.

Table XIII sets out the mean monthly and annual values of rate of rainfall at each of the stations of Table XII. The values are obtained by dividing the total fall for the month or year by the duration as given in the preceding table. The mean rates for the year vary from ·099 at Snowdon (Cwm Dyli) to ·035 in. per hour at Armagh Observatory. The highest mean rates were recorded in July, when values exceeding ·200 inch per hour occurred at Kensington Palace, Kew Observatory and Twickenham Sewage Works. The smallest values were less than ·020 inch per hour and occurred in February and November.

The values for February at Armagh Observatory and Petersfield were ·014 and ·017 inch and for November at Armagh Observatory and Kirriemuir, in Forfar, ·017 and ·019 inch per hour respectively.

Table XII.—*Duration of Rainfall at 92 Stations during 1934. (Monthly and Annual values.)*

For the purposes of this table the month commences either at 7 a.m. or 9 a.m. G.M.T. on the first day of the month and ends at the same hour on the first day of the following month.

County and River Division.	Station.	Pattern of Gauge.	H't. above Sea.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
London 2	Kensington Palace	Hyeto	80	40	8	53	35	14	15	11	27	18	35	53	118	427
„ 2	Fulham (Bishops Park).....	Hyeto	15	34	5	51	35	15	14	10	24	17	30	41	91	367
„ 2	Hampstead Observatory.....	Hyeto	451	51	16	60	44	17	18	8	28	21	34	62	124	483
„ 2	St. Pancras (Camden Square).	Hyeto	111	42	5	48	38	14	18	8	25	20	29	48	111	406
Surrey 4	Croydon (Aerodrome)	Nat. Syphon	217	60	11	54	58	18	18	15	31	20	55	69	157	566
„ 5	Leatherhead (Dunard Lodge)	Nat. Syphon	233	49	10	48	48	16	15	18	28	21	43	53	143	492
„ 5	Kingston (Sewage Works)....	Nat. Syphon	25	45	7	44	44	15	12	13	22	13	21	51	102	389
„ 5	Kew Observatory	Beckley	20	38	7	48	39	13	15	14	23	18	28	47	99	389
Kent 1	Dover (Waterloo Crescent)...	Hyeto	22	71	11	61	59	30	21	8	29	16	31	52	116	505
„ 1	Dover (River, Gwydyr)‡	Nat. Syphon	55	52	2	56	42	25	16	6	27	18	45	52	107	448
„ 2	Lympne (Aerodrome)	Hyeto	346	80	4	67	51	23	13	9	29	19	36	59	124	514
„ 2	Ramsgate (East Cliff).....	Nat. Syphon	82	35	6	60	52	37	15	12	30	17	35	46	79	424
„ 4	Strood Waterworks.....	Nat. Syphon	112	48	..	58	51	18	17	14	26	23	46	61	..	..
Sussex 5	Eastbourne (Motcombe Gdns.)	N. & Z. Float	59	71	1	55	51	21	18	10	41	20	50	49	126	513
Hampshire ..4	Calshot (Aerodrome)	Nat. Syphon	9	73	0	52	41	20	18	11	36	32	38	69	166	556
„ ..7	Petersfield (Stoner Hill).....	Hyeto	750	83	7	65	64	20	26	16	41	53	51	88	202	716
„ ..8	South Farnborough (R.A.E.).	Hyeto	237	53	4	47	36	18	12	18	22	19	34	56	131	450
Middlesex ...1	Twickenham Sewage Works..	Hyeto	38	30	5	35	26	8	12	13	18	14	20	29	73	283
„ ...1	Hayes Sewage Works.....	Hyeto	124	24	3	38	26	8	13	11	22	17	20	26	72	280
„ ...1	Greenford.....	Hyeto	61	28	8	40	26	13	13	11	21	18	24	33	67	302
„ ...1	Ickenham Sewage Works....	Hyeto	109	29	4	35	25	12	13	10	28	17	25	28	77	303
„ ...1	Wealdstone Sewage Works...	Hyeto	155	27	4	36	24	12	10	8	20	17	22	34	77	291
„ ...1	Edgware (M.C.C. Depot).....	Hyeto	179	34	5	38	29	12	8	7	19	16	19	24	79	290
„ ...2	Palmers Gn. (Broomfield Park)	Casella	138	44	5	44	28	12	12	5	25	17	24	36	95	347
Herts. 2	Barnet Sewage Works.....	Hyeto	297	33	6	39	21	11	12	5	22	17	26	30	80	302
„ 2	Harpenden (Rothamsted)....	Nat. Syphon	420	47	19	50	27	14	20	8	29	24	31	42	91	402
Bucks 3	Eton (Tangier Island)	Nat. Syphon	78	29	1	43	32	12	13	19	28	19	23	55	94	368
Oxon. 3	Upper Heyford (Aerodrome)..	Nat. Syphon	408	65	17	58	44	15	20	10	37	34	38	70	157	565
„ 4	Harpsden (Cray)	Nat. Syphon	230	35	2	43	26	13	16	14	26	20	21	30	100	346
Essex.....1	Leyton Sewage Works.....	Hyeto	22	31	2	33	33	12	17	7	19	12	29	47	97	339

‡ Formerly at Barton Road.

Table XIII.—*Mean Rate of Rainfall at 92 Stations during* 1934. (*Monthly and Annual values.*)

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.
London 2	Kensington Palace.....	·033	·031	·037	·047	·032	·070	·207	·057	·081	·027	·031	·039	·045
,, ...2	Fulham (Bishops Park).....	·037	·044	·038	·045	·026	·076	·174	·080	·083	·031	·040	·045	·049
,, ...2	Hampstead Observatory	·030	·019	·039	·050	·036	·043	·122	·083	·109	·032	·033	·045	·046
,, ...2	St. Pancras (Camden Square).....	·032	·038	·041	·059	·034	·063	·119	·077	·139	·037	·039	·043	·051
Surrey 4	Croydon (Aerodrome)	·035	·030	·046	·049	·034	·057	·153	·081	·078	·032	·037	·041	·047
,, ...5	Leatherhead (Dunard Lodge).....	·046	·031	·059	·050	·040	·070	·108	·069	·079	·044	·050	·054	·056
,, ...5	Kingston (Sewage Works).....	·030	·034	·044	·049	·031	·060	·182	·103	·086	·044	·038	·047	·052
,, ...5	Kew Observatory	·032	·030	·044	·038	·033	·066	·224	·076	·071	·031	·038	·044	·051
Kent.....1	Dover (Waterloo Crescent).....	·038	·027	·043	·037	·037	·075	·171	·070	·074	·061	·038	·047	·048
,, ...1	Dover (River, Gwydyr)‡	·060	·125	·058	·061	·046	·104	·162	·076	·071	·049	·049	·061	·062
,, ...2	Lympne (Aerodrome)	·035	·031	·041	·038	·046	·107	·109	·083	·063	·054	·045	·054	·050
,, ...2	Ramsgate (East Cliff).....	·046	·034	·040	·029	·044	·061	·156	·070	·039	·061	·036	·042	·047
,, ...4	Strood Waterworks.....	·037	..	·042	·032	·030	·097	·084	·061	·054	·031	·026	..	..
Sussex 5	Eastbourne (Motcombe Gardens) ..	·040	·017	·047	·052	·023	·081	·110	·086	·081	·052	·080	·069	·061
Hampshire.....4	Calshot (Aerodrome).....	·033	·118	·052	·052	·050	·064	·065	·108	·073	·053	·053	·052	·055
,, ...7	Petersfield (Stoner Hill).....	·044	·017	·058	·048	·049	·077	·090	·081	·065	·044	·045	·063	·057
,, ...8	South Farnborough (R.A.E.).....	·043	·018	·054	·048	·035	·171	·110	·101	·069	·038	·041	·048	·054
Middlesex 1	Twickenham Sewage Works.....	·036	·052	·057	·056	·044	·075	·277	·126	·099	·040	·057	·059	·071
,, ...1	Hayes Sewage Works.....	·051	·067	·058	·076	·052	·075	·137	·105	·083	·061	·066	·066	·071
,, ...1	Greenford	·049	·044	·051	·073	·046	·064	·157	·114	·080	·059	·049	·062	·067
,, ...1	Ickenham Sewage Works.....	·053	·052	·066	·063	·056	·075	·175	·086	·081	·066	·057	·066	·069
,, ...1	Wealdstone Sewage Works.....	·054	·066	·055	·066	·074	·068	·118	·121	·091	·067	·055	·064	·069
,, ...1	Edgware (M.C.C. Depot).....	·049	·067	·059	·081	·084	·095	·143	·123	·118	·083	·086	·072	·079
,, ...2	Palmers Green (Broomfield Park)..	·035	·030	·050	·077	·065	·078	·136	·092	·137	·053	·051	·057	·062
Herts.....2	Barnet Sewage Works.....	·052	·071	·056	·100	·060	·121	·116	·108	·123	·058	·061	·065	·072
,, ...2	Harpenden (Rothamsted).....	·041	·023	·047	·050	·060	·083	·139	·062	·112	·061	·041	·047	·056
Bucks. 3	Eton (Tangier Island)	·050	·079	·053	·045	·036	·085	·104	·100	·072	·058	·041	·060	·060
Oxon 3	Upper Heyford (Aerodrome).....	·030	·026	·035	·036	·038	·051	·089	·063	·085	·039	·022	·039	·040
,, ...4	Harpsden (Cray)	·046	·040	·049	·062	·040	·096	·096	·104	·083	·071	·053	·067	·066
Essex 1	Leyton Sewage Works.....	·040	·052	·068	·061	·034	·095	·139	·092	·094	·038	·039	·048	·056

‡ Formerly at Barton Road.

Table XII.—*Duration of Rainfall at 92 Stations during* 1934—(*con.*).

County and River Division.	Station.	Pattern of Gauge.	H't. above Sea.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
Suffolk.....2	Copdock	Casella	164	38	19	52	46	33	12	12	23	19	30	40	88	412
,, ...3	Felixstowe (Aerodrome).....	Nat. Syphon	15	38	12	49	45	42	12	18	18	21	25	44	107	431
Wilts. 3	Salisbury (Sewage Works) ..	Nat. Syphon	147	47	2	54	34	14	10	10	33	31	24	42	158	459
,, ...3	Porton (W.D. Ex. Station)...	Hyeto	363	51	1	60	34	17	17	11	34	31	22	29	125	432
,, ...3	Amesbury (Boscombe D. Aero.)	Nat. Syphon	419	58	6	63	41	19	16	15	33	30	30	40	163	514
Dorset 3	Poole.....	Hyeto	8	83	4	57	48	14	21	5	43	40	42	46	173	576
S. Devon....2	Plymouth (Mt. Batten Aero.) .	Nat. Syphon	82	68	2	59	55	22	24	6	44	40	41	36	177	574
,,.....2	Plymouth (Freedom Park)...	Hyeto	208	93	2	67	74	30	32	8	50	51	48	36	204	695
,, ...4	Princetown (H.M. Prison) ...	Nat. Syphon	1430	149	4	75	103	48	46	20	73	89	120	76	(307)	1110
,, ...5	Chagford (Metherall)	Casella	1150	141	4	66	136	39	49	9	84	70	95	62	283	1038
Cornwall 2	Falmouth Observatory	Beckley	167	95	8	72	81	29	26	14	58	59	85	64	202	793
Hereford 1	Ross-on-Wye.....	Hyeto	224	50	9	44	34	19	10	6	29	21	21	46	114	403
Stafford.....3	West Bromwich.....	Hyeto	543	45	10	44	33	14	17	12	27	20	25	54	77	378
,, ...5	Mayfield.....	Casella	374	77	15	69	50	27	18	32	51	38	77	66	140	660
Warwick 4	Birmingham (Handsworth Pk.)	Hyeto	424	39	14	47	29	17	19	12	29	19	24	54	83	386
Leicester ...4	Loughborough (Nanpantan R.)	Hyeto	269	49	19	53	60	19	15	6	32	27	32	62	95	469
Lincoln 3	Cranwell (Aerodrome)	Nat. Syphon	242	44	20	48	49	16	17	25	38	23	28	76	106	490
Nottingham..2	Sutton Bonington (Agric. Coll.)	Hyeto	159	42	9	43	35	15	9	12	27	27	21	46	73	359
,, 5	Nottingham (Trent Lane)....	Fernley	83	43	11	43	38	19	13	19	29	25	21	45	88	394
,, 5	Worksop (Hodsock).....	Halliwell	56	29	18	44	38	19	26	16	21	22	27	56	75	391
Derby 6	Burbage (Lower Burbage)....	Hyeto	925	62	11	82	57	30	20	24	35	35	63	67	103	589
Cheshire 3	Birkenhead (Bidston Obs.)...	Nat. Syphon	198	38	4	46	44	54	27	15	46	36	70	59	95	534
S. Lancs.....3	Manchester (Barton Aerodrome)	Nat. Syphon	70	64	9	54	55	61	31	24	48	38	96	60	107	647
,, ..3	Bolton (Queen's Park).....	Fernley	342	80	11	70	72	79	39	23	52	39	127	45	114	751
C. Lancs. ...1	Accrington	Nat. Syphon	646	65	7	55	44	56	23	29	63	42	110	42	105	641
,, ...1	Nelson (Walton Lane)	Hyeto	540	53	6	42	46	50	30	32	46	33	102	43	87	570
,, ...2	Leyland (Worden Hall)	Fernley	125	59	6	57	56	79	27	16	53	47	91	42	86	619
,, ...3	Southport (Hesketh Park)....	Fernley	39	54	3	45	47	65	27	15	48	47	77	47	91	566
N. Lancs. ...4	Lancaster (Greg Observatory).	Beckley	312	99	3	53	51	75	33	31	63	63	100	31	89	691
W.R. Yorks..7	Sheffield W.W. (Rivelin).....	Hyeto	564	55	10	72	57	39	16	24	32	28	57	59	104	553

Table XIII.—*Mean Rate of Rainfall at 92 Stations during* 1934—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ins per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.
Suffolk 2	Copdock	·033	·021	·041	·057	·040	·060	·191	·070	·083	·055	·043	·047	·052
,, ...3	Felixstowe (Aerodrome)	·028	·024	·038	·048	·059	·060	·100	·060	·078	·052	·029	·030	·044
Wilts. 3	Salisbury (Sewage Works)	·047	·030	·056	·054	·047	·143	·129	·082	·060	·062	·045	·052	·058
,, ...3	Porton (W.D. Ex. Station).....	·046	·043	·054	·052	·046	·077	·113	·074	·053	·053	·059	·067	·061
,, ...3	Amesbury (Boscombe Down Aero.)	·043	·016	·050	·043	·043	·084	·115	·080	·067	·044	·042	·049	·053
Dorset 3	Poole	·032	·008	·052	·037	·060	·066	·051	·081	·054	·031	·049	·051	·048
S. Devon 2	Plymouth (Mt. Batten Aero.)	·036	·044	·054	·044	·075	·066	·047	·092	·064	·046	·038	·055	·054
,, ...2	Plymouth (Freedom Park)	·041	·058	·058	·041	·075	·058	·046	·081	·069	·062	·043	·063	·058
,, ...4	Princetown (H.M. Prison)	·076	·114	·080	·062	·085	·087	·044	·102	·090	·082	·042	(·083)	·079
,, ...5	Chagford (Metherall)	·060	·080	·072	·037	·096	·047	·074	·062	·070	·063	·044	·073	·063
Cornwall.....2	Falmouth Observatory.....	·048	·035	·060	·046	·066	·055	·066	·057	·059	·039	·037	·053	·051
Hereford 1	Ross-on-Wye	·055	·042	·049	·055	·067	·083	·111	·063	·084	·053	·043	·051	·056
Stafford.....3	West Bromwich.....	·067	·028	·052	·065	·072	·049	·061	·081	·098	·060	·041	·061	·061
,, ...5	Mayfield	·041	·037	·039	·039	·046	·041	·043	·055	·061	·035	·027	·042	·041
Warwick 4	Birmingham (Handsworth Park) ..	·076	·018	·048	·082	·056	·044	·073	·082	·107	·070	·040	·057	·061
Leicester 4	Loughborough (Nanpantan Res.) ..	·053	·030	·036	·053	·059	·045	·159	·070	·066	·046	·037	·049	·050
Lincoln.....3	Cranwell (Aerodrome).....	·037	·024	·043	·042	·031	·037	·084	·055	·047	·035	·023	·032	·040
Nottingham.....2	Sutton Bonington (Agric. College)..	·048	·056	·042	·062	·050	·059	·110	·058	·067	·050	·045	·045	·053
,, ...5	Nottingham (Trent Lane).....	·045	·046	·049	·053	·050	·042	·084	·062	·073	·050	·046	·046	·052
,, ...5	Worksop (Hodsock).....	·051	·053	·060	·062	·054	·047	·117	·059	·063	·047	·039	·051	·055
Derby 6	Burbage (Lower Burbage).....	·053	·045	·046	·059	·054	·088	·084	·053	·073	·063	·045	·058	·057
Cheshire 3	Birkenhead (Bidston Observatory).	·038	·035	·028	·038	·031	·054	·047	·083	·062	·067	·030	·044	·047
S. Lancs. 3	Manchester (Barton A rodrome)...	·036	·048	·042	·037	·038	·066	·079	·062	·071	·048	·027	·040	·046
,, ...3	Bolton (Queen's Park)	·049	·041	·048	·039	·043	·052	·095	·093	·091	·050	·052	·058	·056
C. Lancs. 1	Accrington	·066	·048	·052	·058	·069	·102	·088	·079	·083	·056	·051	·065	·066
,, ...1	Nelson (Walton Lane).....	·077	·075	·059	·054	·066	·087	·077	·096	·115	·069	·045	·062	·071
,, ...2	Leyland (Worden Hall)	·050	·037	·039	·042	·041	·077	·087	·077	·084	·058	·055	·056	·056
,, ...3	Southport (Hesketh Park)	·047	·030	·038	·045	·047	·065	·088	·069	·065	·057	·060	·050	·054
N. Lancs.....4	Lancaster (Greg Observatory).....	·051	·060	·041	·060	·061	·079	·074	·073	·083	·064	·047	·058	·062
W.R. Yorks.....7	Sheffield W.W. (Rivelin).....	·074	·037	·057	·052	·051	·104	·099	·048	·077	·066	·041	·059	·061

Table XII.—*Duration of Rainfall at 92 Stations during* 1934—(*con.*).

County and River Division.	Station.	Pattern of Gauge.	H't. above Sea.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
W.R. Yorks. .7	Rotherham (Aldwarke S.Wks.)	Hyeto	73	30	16	57	39	23	17	18	21	25	28	51	71	39
,, ..7	Langsett Moor (Swinden Lodge)	Nat. Syphon	1038	65	5	69	51	40	22	31	47	32	65	63	101	591
,, ..9	Haworth (Lower Laithe Res.).	Hyeto	771	82	14	73	49	65	40	31	68	49	108	53	174	806
,, ..9	Earby (Sewage Works).....	Hyeto	426	62	5	40	39	38	36	20	33	36	57	37	92	495
,, ..9	Skipton (Town Hall).....	Hyeto	368	65	7	58	62	45	27	25	51	43	69	33	83	568
N.R. Yorks..2	Felixkirk (Mt. St. John).....	Halliwell	542	45	26	63	65	26	17	25	45	34	46	52	106	550
,, ...2	Catterick (Aerodrome).....	Nat. Syphon	175	39	6	59	77	32	28	23	37	28	74	43	103	549
Durham 1	Billingham-on-Tees	Nat. Syphon	58	19	15	35	46	18	29	19	32	22	41	39	55	370
Glamorgan ..3	Swansea (Victoria Park).....	Hyeto	28	85	9	52	50	36	32	9	51	53	48	31	160	616
,, ..7	Cardiff (Penylan).....	Nat. Syphon	205	90	11	68	59	28	21	14	56	46	70	41	179	683
Brecon.....7	Cray Reservoir.....	Halliwell	1044	194	13	118	119	68	49	25	83	84	127	81	292	1253
Flint 1	Sealand (Aerodrome)	Hyeto	17	39	4	50	50	46	20	13	34	24	52	54	91	477
Carnarvon...5	Snowdon (Cwm Dyli).....	Beckley	310	158	11	100	72	104	56	23	132	95	191	56	210	1208
Anglesey	Holyhead (Salt Island).....	Hyeto	26	80	9	69	45	56	32	14	48	54	78	54	136	675
Dumfries....5	Eskdalemuir Observatory ..	Beckley	794	236	17	117	97	91	50	61	91	96	171	64	173	1264
Berwick.....3	Swinton House	Hyeto	200	33	4	75	63	32	43	36	45	33	62	53	62	541
Midlothian ..5	Boghall (Col. of Agriculture)..	Hyeto	646	74	3	85	84	43	39	36	51	37	62	39	82	635
Lanark 4	Crawford (Camps Res.)	Nat. Syphon	970	140	4	72	88	75	42	54	59	82	124	34	125	899
Ayr 3	Kilmarnock (Kay Park).....	‡	132	92	11	47	57	55	39	40	56	63	106	29	89	684
Renfrew 2	Renfrew (Abbotsinch Aero.) .	Hyeto	33	124	13	75	76	56	60	55	63	71	121	41	137	892
,, ...3	Greenock (Prospect Hill).....	Hyeto	200	124	27	62	64	68	55	53	73	88	130	46	147	937
Argyll 4	Glenleven (Blackwater Dam)..	Hyeto	1072	232	74	(109)	128	122	47	84	141	166	239	81	230	1653
,, ...14	Tiree	Hyeto	22	83	14	63	77	68	55	73	68	99	96	58	101	855
Fife 3	Leuchars (Aerodrome)	Nat. Syphon	30	39	1	83	86	42	29	47	46	29	40	18	87	547
Angus 1	Kirriemuir (Lintrathen).....	Nat. Syphon	700	108	7	97	106	56	37	58	74	73	94	36	178	924
Aberdeen ...2	Aberdeen Observatory	Beckley	48	43	21	36	101	67	26	30	67	53	66	51	111	672
,, ...2	Dyce (Craibstone).....	Hyeto	300	40	10	39	110	69	21	36	76	47	71	57	114	690
Shetland	Lerwick Observatory	Hyeto	269	83	99	71	88	81	34	67	65	53	105	61	113	920
Cork.....7	Cork (University College)....	Hyeto	64	73	5	56	46	35	43	25	40	87	60	37	130	637
Kerry.....3	Valentia Observatory	Beckley	30	127	12	78	59	57	66	63	74	107	87	73	168	971
Armagh.....5	Armagh (Observatory).....	Beckley	209	118	19	82	101	86	39	44	95	99	100	41	144	968
Antrim 5	Aldergrove (Aerodrome)	Nat. Syphon	238	76	7	55	64	61	47	36	69	79	69	31	101	695

‡ Private construction.

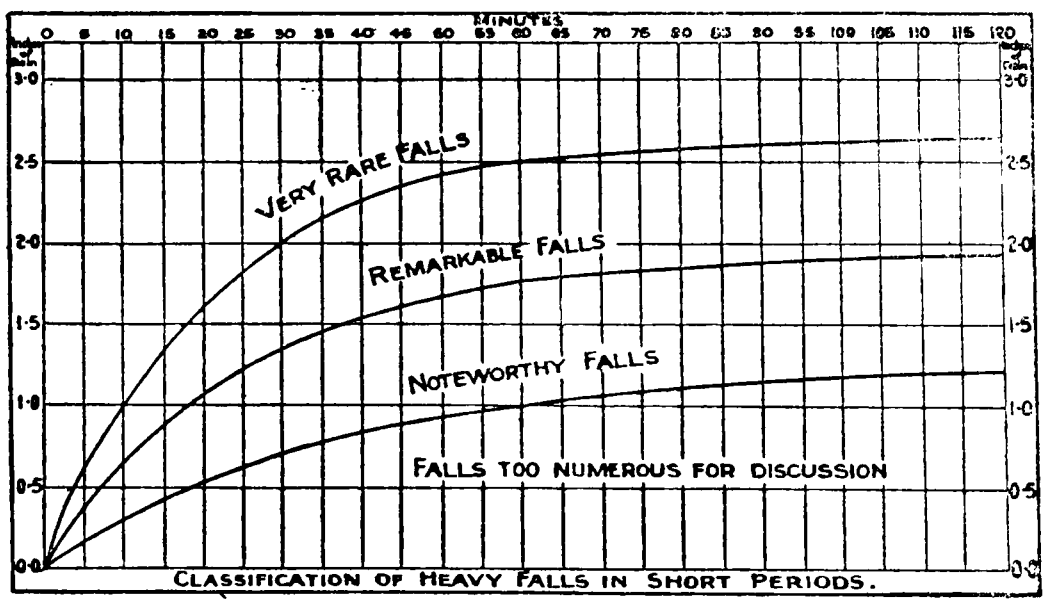
Table XIII.—*Mean Rate of Rainfall at* 92 *Stations during* 1934—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.
W.R. Yorks. 7	Rotherham (Aldwarke Sew. Works)	·052	·055	·040	·062	·044	·053	·090	·036	·075	·060	·038	·051	·052
,, ...7	Langsett Moor (Swinden Lodge) ..	·065	·037	·058	·057	·062	·065	·079	·063	·093	·071	·046	·056	·062
,, ...9	Haworth (Lower Laithe Res.).....	·059	·035	·054	·057	·052	·061	·072	·053	·054	·054	·041	·045	·052
,, ...9	Earby (Sewage Works).....	·069	·060	·068	·056	·087	·078	·110	·094	·103	·070	·046	·057	·072
,, ...9	Skipton (Town Hall)	·050	·029	·048	·041	·060	·058	·070	·050	·054	·052	·040	·061	·052
N.R. Yorks.....2	Felixkirk (Mt. St. John).....	·041	·055	·039	·040	·032	·087	·136	·060	·056	·060	·042	·050	·053
,, ...2	Catterick (Aerodrome)	·033	·049	·030	·033	·036	·061	·060	·049	·059	·043	·032	·039	·040
Durham 1	Billingham-on-Tees	·033	·050	·042	·042	·053	·061	·083	·075	·084	·053	·043	·055	·055
Glamorgan.....3	Swansea (Victoria Park).....	·061	·064	·057	·065	·057	·061	·074	·066	·077	·070	·059	·069	·065
,, ...7	Cardiff (Penylan).....	·039	·059	·028	·045	·050	·074	·110	·068	·074	·042	·042	·062	·053
Brecon 7	Cray Reservoir.....	·057	·056	·052	·045	·055	·048	·049	·064	·076	·058	·041	·060	·056
Flint 1	Sealand (Aerodrome)	·033	·045	·034	·037	·031	·042	·052	·057	·056	·054	·047	·048	·044
Carnarvon 5	Snowdon (Cwm Dyli)	·091	·100	·079	·078	·095	·101	·110	·107	·154	·111	·072	·088	·099
Anglesey	Holyhead (Salt Island).....	·044	·030	·028	·027	·069	·049	·030	·059	·068	·061	·051	·070	·054
Dumfries 5	Eskdalemuir Observatory.....	·047	·024	·038	·052	·053	·051	·041	·077	·075	·057	·035	·051	·052
Berwick 3	Swinton House	·037	·086	·045	·056	·045	·054	·091	·062	·070	·063	·047	·055	·056
Midlothian.....5	Boghall (Col. of Agriculture)	·045	·057	·039	·055	·041	·079	·069	·066	·052	·063	·053	·042	·053
Lanark 4	Crawford (Camps Res.)	·053	·070	·042	·051	·051	·051	·048	·089	·063	·053	·050	·064	·057
Ayr 3	Kilmarnock (Kay Park).....	·053	·057	·045	·054	·062	·052	·077	·067	·079	·065	·039	·058	·060
Renfrew 2	Renfrew (Abbotsinch Aero.).....	·045	·040	·034	·040	·043	·031	·043	·061	·071	·047	·024	·040	·044
,, ...3	Greenock (Prospect Hill).....	·082	·034	·053	·056	·056	·051	·054	·072	·075	·071	·059	·066	·067
Argyll 4	Glenleven (Blackwater Dam).....	·091	·048	(·052)	·056	·054	·046	·056	·062	·079	·074	·030	·055	·064
,, ...14	Tiree	·056	·050	·041	·043	·042	·063	·045	·065	·081	·059	·029	·051	·054
Fife 3	Leuchars (Aerodrome).....	·035	·092	·034	·054	·053	·052	·067	·067	·084	·059	·040	·036	·050
Angus.....1	Kirriemuir (Lintrathen).....	·030	·025	·029	·028	·041	·026	·065	·066	·064	·042	·019	·040	·041
Aberdeen 2	Aberdeen Observatory	·040	·032	·030	·061	·045	·045	·056	·065	·055	·053	·048	·038	·050
,, ...2	Dyce (Craibstone)	·039	·046	·036	·061	·055	·038	·066	·069	·063	·050	·048	·049	·054
Shetland.....	Lerwick Observatory	·061	·034	·046	·037	·042	·041	·032	·054	·078	·058	·050	·045	·048
Cork 7	Cork (University College)	·064	·061	·083	·076	·056	·038	·088	·083	·069	·059	·036	·069	·066
Kerry 3	Valentia Observatory	·053	·063	·072	·061	·040	·037	·043	·074	·075	·081	·052	·081	·064
Armagh 5	Armagh (Observatory)	·024	·014	·022	·025	·032	·036	·058	·058	·047	·045	·017	·033	·035
Antrim 5	Aldergrove (Aerodrome).....	·036	·044	·037	·039	·046	·060	·087	·065	·071	·057	·023	·051	·052

6. HEAVY FALLS IN SHORT PERIODS IN 1934.

Heavy falls of rain in short periods are of considerable economic importance, for they are frequently of such intensity as to cause extensive flooding, often accompanied by much surface erosion and structural damage to property. Considerable damage may occur as a result of the accumulation of flood water below the area of heaviest rainfall. The amount of the damage depends on a number of other factors, such as the shape of the catchment area, the nature of the ground and vegetation, whether the water finally flows into the river or sea at high or low tide and the relative positions of the towns. In towns the floods may be aggravated by the failure of the drainage system to cope with the demands made upon it. The information given in this section supplements that in Section 7, Heavy Falls on Rainfall Days, which deals with falls of longer duration causing often more widespread flooding.

Since 1908, this section of *British Rainfall* has contained a classification of intense falls into three categories designated " worthy of notice," " remarkable," and " very rare." The classification has been effected by reference to a diagram of which a copy is reproduced. This diagram indicates by continuous curved lines the lower limits of rainfall which must fall in stated times in order that the fall may be admitted into one of the three categories.



CLASSIFICATION OF HEAVY FALLS IN SHORT PERIODS.

The diagram was prepared almost exclusively from eye observations of rainfall duration and from corresponding measurements of rainfall in ordinary rain-gauges.

On pp. 45–46 of *British Rainfall*, 1926, it was pointed out that the frequency of intense falls above the curve denoting the limit of noteworthy falls is in actual fact much greater for small intervals of time (*i.e.*, the left-hand side of the diagram) than for larger intervals (the right-hand side of the diagram). On this account, the data of Table XV have been divided into two sections, one giving results from eye observations, which are properly comparable with the diagram, and the other giving results from autographic records, which are not truly comparable with the diagram for falls of short duration.

A complete list of the recorded falls of " very rare " intensity of one hour or less is given in Table XIV, where readings of ordinary as well as of autographic gauges are included. There are four entries for 1934, *viz.*, ·75 inch in 7 minutes for July 18th at Kew Observatory, 1·25 inches in 10 minutes for September 15th at Trowbridge, 2·25 inches in 25 minutes for July 18th at Stratford-on-Avon and 2·75 inches in one hour for July 13th at Wrexham.

In Table XV particulars are given of falls recorded in 1934 which reached at least the intensity " worthy of notice." Unlike Table XIV, falls of longer duration than one hour are included, the upper limit being two hours. Not more than one entry is made for the same shower for any station. The entry gives the largest amount recorded with a mean intensity " worthy of notice," " remarkable," or " very rare," as the case may be, an entry at the higher rate being in general preferred. Unless the amount was ·20 inch or more, intense falls of less duration than five minutes are not included in the table, since in such cases the error is likely to be relatively large and such falls are not usually of practical importance.

In accordance with practice the geographical distribution of the heavy falls of Table XV is given in the following summary. The analysis probably separates the areas of more frequent and intense falls from those relatively immune, although it cannot be expected to indicate the actual relative frequency of intense falls in each area.

Number of Noteworthy Rains of Two Hours' Duration or less.

	England and Wales.								Per cent.
	S.E.	S.W.	N.E.	N.W.	Total.	Scotland.	Ireland.	British Isles.	of all records.
Average 1868–1934	17·1	8·2	4·8	2·7	32·8	2·5	1·7	37·0	1·0
1934 (*a*) ..	14	14	4	2	34	0	1	35	0·6
1934 (*b*) ..	21	2	2	0	25	1	1	27	0·5
1934 Sums ..	35	16	6	2	59	1	2	62	1·1

(*a*) Observations made without autographic rain-gauges.
(*b*) Readings of autographic gauges.

Most of the entries occur in south-east and south-west England. There is only one entry for Scotland and only two for Ireland.

The total number, 62, compares with 49 in 1933, 57 in 1932 and 104 in 1931. In making the comparison of the two sets of figures with the average values it should be remembered that since 1868 the number of observing stations has steadily increased, while the number of autographic rain-gauges has also increased more especially of recent years. A fairly good indication of the frequency of intense falls in 1934, in relation to the average, is probably provided by comparing the number of observations made without autographic rain-gauges with the average. This indicates that the number of intense falls in short periods in 1934 closely approximated to the normal.

Usually about two-thirds of the total number of intense falls on record have occurred in the three months, June, July and August. In 1934 all but eight entries occurred in these months and as many as 38 out of 62 occurred in July.

Only one entry occurs in Tables XIV and XV for the first five months of the year, *viz.*, that of ·20 inch in 5 minutes at Mount Batten Aerodrome, near Plymouth, for *May* 5th. At this station rain continued during a period of 6½ hours in the early morning of the 5th, giving an inch of rain, of which ·79 inch fell in 1 hour 6 min.

Local thunderstorms occurred frequently between *June* 23rd and 28th : they were widespread and severe in England on the 23rd, 25th and 28th, causing temporary flooding in places. Entries are given in the tables for the 19th, 25th and 28th. On the 25th intense falls occurred at Ricksmansworth, Thetford and Bexhill. The fall at Rickmansworth of 1·23 inches in 22 minutes ranks as " remarkable." The observer, Mr. E. L. Hawke, writes :—

> " After a period of 20 months (October 21st, 1932, to June 24th, 1934) in which no day yielded as much as ·75 inch of rain, this district caught the full force of one of the severe thunderstorms that were drifting in the stagnant region between shallow depressions over Cornwall and the Netherlands on June 25th. Light showers from a canopy of low stratiform cloud before 11h. were followed by sunshine setting up strong convection until about 12¼h., when a large cumulonimbus cloud of particularly lurid aspect began to overspread the sky from south-west and south. The storm developed quickly as it approached, and at 12h. 44m. it broke overhead. From then until soon after 13h. rain was torrential and lightning almost incessant : several of the flashes (which were of a brilliant blue colour) came to earth in the immediate vicinity of the climatological station, while one, at 13h. 2m., accompanied by a shattering crash of thunder like the report of a large gun close at hand, definitely shook the ground for a fraction of a second. Two houses near-by were struck, and the local telephone service was put out of action. Measurements made with the special " Storm " gauge, described in the *Meteorological Magazine* for 1932, *Vol.* 67, p. 160, gave the rainfall as ·50 inch for the seven minutes 12h. 44m. to

12h. 51m., and 1·23 inches for the 22 minutes 12h. 44m. to 13h. 6m., when the downpour ceased quite suddenly. There was no hail. The road running along the bottom of the valley was flooded—nine or ten inches deep in places—but only for a short time. So rapid was the infiltration of the water through the surface layers of the soil (sand and gravel over chalk), parched as they were by the long spell of droughty weather, that by 15h. there was no trace of "sponginess" about the lawn. At 9h. next morning the entry "dry ground" was made in the register for the 47th day in succession. During the storm the thermograph showed a fall of temperature of 13° F., from 68° F. to 55° F., within five minutes."

At Thetford the observer reports a thunderstorm from 16h. 30m. to 17h. 30m. during which 1·70 inches of rain fell.

Although no measurements are available for the tables defining the thunderstorm rains of June 28th in the Isle of Wight, the following comments by Mr. J. E. Cowper warrant inclusion :—

" . . . two storms came up from the north-east and north-west simultaneously and broke over Newport, eventually passing south-east over Sandown, Shanklin and Ventnor. Flooding occurred over a wide area, and many houses were struck by lightning. The storm lasted from about 14h. to 16h. and produced ½ inch of rain in 20 minutes at Newport. The feature of the storm was the extraordinary hailstorm that accompanied it. The hailstones were as big as marbles and just as hard—for over an hour after the storm they were still on the ground. A partridge sitting on her nest was found killed by the hail."

Although the total rainfall over England and Wales for *July* was little more than half the usual amount individual records varied appreciably owing to the local heavy rains which occurred after the 10th. A note on the "Thunderstorms in July, 1934" is included in the *Meteorological Magazine* for 1934, *Vol.* 69, pp. 160–164. Entries in the tables are most numerous for the 12th, 13th, 18th, 22nd and 24th. The entry for Sarnesfield Court, near Weobley, for the 11th of 2·04 inches between 14h. 30m. and 16h., ranks as remarkable. On the 12th the observer at Bettws-y-Coed reports that 3·18 inches fell in under two hours, but that "within a mile each way very little rain fell." On the same day a fall of 1·88 inches was recorded at Trowbridge of which 1·15 inches fell in one hour from 16h.–17h.; at Kimbolton, near Leominster 1·57 inches fell from 14h. 15m. to 15h. during a heavy thunderstorm unaccompanied at the station by either wind or hail; and at Frinton in Suffolk 2·70 inches fell during the day. The entry at Bettws-y-Coed ranks as "very rare." Of the ten entries for the 13th the most striking is that for Wrexham, where a gauge recorded 2·75 inches between 14h. 45m. and 15h. 45m., the nearest station giving complete readings for the year, *viz.*, that at Wrexham (Beechley Road), reporting 3·85 inches for that day.

Mr. M. W. Binns reports that 1·05 inches fell on the 18th at Lutterworth :—

"It was a wild storm. Most of the precipitation occurred in 20¼ minutes, the total duration being 30½ minutes. Large transparent hail-

stones, $\frac{7}{10}$ inch in diameter, swept before a strong out-blowing wind (force 6–7) from S. by W., and these were driven northward where, two miles away, some still lay next morning."

The entries for Stratford-on-Avon (Thurlaston) and Castleton rank as "remarkable" and those for Kew, Stratford-on-Avon (Milcote), Rugby (Bilton Grange) and Dunchurch Hall as "very rare." At Kew Observatory the minute by minute gauge, described in the *Meteorological Magazine* for 1934, *Vol.* 69, pp. 157–160, gave the following amounts as the highest rainfalls in stated times from one to sixteen minutes :—

Amount in.	Duration min.	Rate per hour in.	Amount in.	Duration min.	Rate per hour in.
·20	1	12·0	·85	9	5·7
·33	2	10·0	·89	10	5·3
·44	3	8·8	·94	11	5·1
·52	4	7·8	·98	12	4·9
·60	5	7·2	1·01	13	4·7
·66	6	6·6	1·04	14	4·5
·75	7	6·4	1·06	15	4·3
·81	8	6·1	1·07	16	4·0

The first seven entries qualify for inclusion as "very rare" and the remainder as "remarkable." The values given in this table are comparable with those for the famous storm of June 23rd, 1878, at Camden Square, see *British Rainfall*, 1925, p. 53, when the corresponding values for 1 and 15 minutes were ·17 and 1·43 inches respectively. The two stations at Stratford-on-Avon, which reported intense falls, are about a mile apart. The storm was local, the total for the day at Snitterfield 3 miles to the north, being only ·16 inch. The two stations at Bilton Grange and Dunchurch Hall are only about $\frac{3}{4}$ mile apart. At Bilton Grange the thunderstorm was from 15h. 30m. to 16h. 40m. although at Dunchurch Hall a longer duration of rainfall is reported. At Castleton, to the west of Whitby, the thunderstorm, accompanied by heavy rain and hail, occurred between 17h. 30m. and 18h. 30m.

At Barcombe, near Lewes, the total rainfall for the three days July 21st to 23rd amounted to 2·63 inches, of which 1·11 inches fell between 15h. 20m. and 16h. 5m. on the 22nd, during a local but severe thunderstorm, when a tree was struck less than a $\frac{1}{4}$ mile from the rain-gauge. At Iwerne Minster the heavy rain on the 22nd occurred between 16h. and 17h. and at Yelverton between 12h. and 14h. The abnormal fall to the south of Bromley (Kent) calls for special comment. Mr. D. A. Worthington of Woodland Way, West Wickham reports that 4·55 inches of rain and hail fell there from 18h. 50m. to 20h. 30m.

"At 18h. 50m. I was outside the house and noted the intense stagnation of the air . . . a few heavy drops fell, but it was not until 18h. 55m. that it became very heavy. Thunder and lightning then rapidly approached

from the north and rain increased to a heavy torrent. About 19h. 5m. this suddenly changed to a sheet of hail driven by a fierce squall from the north, but within five minutes the hail turned to rain, which fell with an even greater intensity. This continued till 20h. 15m. when it lessened and at 20h. 30m. it was only normal heavy rain. Thunder and lightning were almost directly overhead and the lightning appeared to average some 10 flashes a minute. I was unable to make a close study of the storm as our house soon became nearly full of drenched folk sheltering from the storm. Although on top of the hill, water poured over the lawns and ran round the house in torrents, and water up to 2 feet in depth swept down certain roads."

Mr. Derek Schove, of Beckenham Road, West Wickham, writes :—

" In the storm of July 22nd, I recorded 3·75 inches with a standard gauge. The heavy rain apparently did not occur anywhere in the locality until 18h. 45m. when it began here to last for about 80 minutes. However the centre of the rain seemed to be to the south or south-east of us, clear sky being observed to the south-west, and often to the north-east, north and north-west., Lightning centres began to the west or north-west with a few sharp " blue " flashes and moved slowly to the south and east of the village, increasing in frequency, but apparently changing to a reddish colour and passing from cloud to cloud. The intensity of the flashes would be remarkable in any case, but more so in view of the fact that until 20h. 15m. scarcely any flashes were observed more than ½ mile distant from my house. The damage done was not large, however, and rumours of fireballs proved difficult to analyse. At one such place, however, among more serious damage, a smoky trace was observable along the frieze and, where the bend in the wall occurred the lightning had sparked across and left a deep " rifle-shot " hole about $\frac{1}{10}$ inch diameter. Peculiar red-brown marks appeared in an unaffected room and soot and brick were blown out from the down-stair grates to strike the opposite wall."

At Bromley rain commenced at 19h. 10m. and from then until 20h. 30m. 1·40 inches was recorded. The trace from the recording gauge gives the following readings :—·40, ·76, 1·14 and 1·20 inches in 7½, 15, 30 and 35 minutes respectively. The Engineer to the West Kent Main Sewerage Board states that the storm of July 22nd did not affect Bexley, Crayford or Dartford. At Tooting Mr. J. H. J. Burtt reports an inch in 16 minutes and an inch and a half in 30 minutes from the recording gauge in use there. The rain terminated at 20h. 10m.

The entries for July 24th are for stations near London and at Lymington. Of these mention may be made of that recorded on the roof of the Meteorological Office at South Kensington of ·85 inch and at Kensington Palace of ·82 inch both from 12h. 20m. to 13h. At Sudbury 7 miles to the north-west, heavy rain began earlier and lasted from 11h. 30m. to 13h. giving 1·26 inches. The only entry for the summer months for stations in Ireland is that for July 31st for Garvagh, to the north of Loch Neagh, where ·25 inch fell between 13h. 36m. and 13h. 43m.

Entries in the tables are given for August 1, 2, 6, 12 and 23 and of these the most striking are the falls of 2·01 inches in 55 minutes

Table XIV.—*Rainfalls of Very Rare Intensity lasting for One Hour or less.*

Year.	Date.	Div.	Station.	Amount.	Duration		Rate per Hour
				in.	H.	M.	in.
1912	May 8	XV	Dumbarton, Alexandria	·26	0	1½	10·40
1888	Mar. 24	XI	Chepstow, Shirenewton Hall...	·33	0	2	9·90
1917	July 14	IV	Norwich, Ipswich Road.....	·47	0	2½	11·28
1893	Aug. 10	VIII	Preston, Corporation Offices....	1·25?	0	5?	15·00?
1893	June 14	XI	Chepstow, Shirenewton Hall ...	·62	0	5	7·44
1925	May 10	II	Godalming, Charterhouse.....	·60	0	5	7·20
1934	July 18	II	Kew Observatory	·75	0	7	6·43
1906	Aug. 2	II	Guildford, Piccard's Rough.....	·89	0	8	6·68
1892	July 3	VIII	Bolton, The Park	1·00?	0	9?	6·67?
1927	Sept. 23	V	Chagford, Dartmoor S'torium ..	1·30	0	10	7·80
1934	Sept. 15	V	Trowbridge, Town Hall	1·25	0	10	7·50
1902	May 30	III	Cambridge, Sydney Street.....	1·10	0	10	6·60
1878	June 23	I	St. Pancras, Camden Square...	1·04	0	10	6·24
1912	July 21	VII	Wirksworth, Manor House.....	1·00	0	10	6·00
1918	July 16	II	Purley, Oakwood Avenue	1·10?	0	11	6·00?
1914	Aug. 14	XI	Guernsey, St. Martin's Road...	1·50	0	15	6·00
1878	June 23	I	St. Pancras, Camden Square...	1·43	0	15	5·72
1927	July 11	I	Balham High Road.....	1·50	0	18	5·00
1875	Aug. 7	II	Canterbury, Harbledown.....	2·12	0	20	6·36
1932	Aug. 20	VI	Malvern, Free Library.....	1·86	0	20	5·58
1878	June 23	I	St. Pancras, Camden Square...	1·82	0	20	5·46
1897	June 24	III	Luton Pumping Station.....	1·65	0	20	4·95
1920	May 29	VIII	Leyland, Worden Hall.....	1·65	0	20	4·95
1933	June 24	II	Silchester House	2·50	0	25	6·00
1934	July 18	VI	Stratford-on-Avon, Milcote.....	2·25	0	25	5·40
1878	June 23	I	St. Pancras, Camden Square...	2·30	0	28	4·93
1880	July 22	XI	Cowbridge, Ash Hall.....	2·90	0	30	5·80
1915	July 4	XI	Abergavenny, The Chain.....	2·20	0	30	4·40
1933	July 21	II	Chatham, Woolman's Wood ...	2·13	0	30	4·26
1918	July 17	I	Shad Thames Pumping Station.	2·07	0	30	4·14
1895	June 27	IX	Middleton-in-the-Wolds	2·00	0	30	4·00
1902	Sept. 10	II	Surbiton, Vronvelin.....	2·00	0	30	4·00
1931	June 14	VI	Cannock Sewage Works.....	2·35	0	38	3·71
1920	May 25	IV	Hatfield, Broad Oak, Barrington	2·79	0	45	3·72
1933	June 21	V	Temple Combe Rectory	2·75	0	45	3·67
1904	July 27	II	Cooling, Broomy Farm.....	2·66	0	45	3·55
1909	Sept. 29	V	Ilfracombe Reservoir.....	2·50?	0	45	3·33?
1895	June 26	V	Marlborough	2·71	0	50	3·25
1915	June 30	IV	Mildenhall	2·63	0	50	3·16
1903	July 18	VI	Crewe, Betley Hall	2·53	0	50	3·04
1905	July 9	III	Enfield, Carisbrooke.....	2·44	0	50	2·93
1911	May 31	II	Epsom, Ashley Road.....	2·44	0	50	2·93
1901	July 29	II	Wadhurst, Lower Cousley Wood	3·25?	0	55	3·55?
1913	June 17	IV	Elvedon Hall.....	2·85	0	58	2·95
1901	July 12	II	Maidenhead, Lowood.....	3·63	1	0?	3·63?
1903	May 30	II	Beddington Corner.....	3·50	1	0	3·50
1911	May 26	II	Fareham, The Mount.....	3·00	1	0	3·00
1897	July 21	IV	Ipswich, Bishops Hill.....	2·95	1	0	2·95
1932	July 11	VII	Cranwell Aerodrome.....	2·93	1	0	2·93
1895	June 26	VI	Worcester, Diglis Lock.....	2·75	1	0	2·75
1934	July 13	XI	Wrexham, W.W. Office	2·75	1	0	2·75
1909	June 1	XII	Carsphairn, Shiel.....	2·71	1	0?	2·71?
1873	July 28	XVII	Fettercairn.....	2·60	1	0	2·60
1889	June 7	II	Tonbridge, Ferndale.....	2·60?	1	0?	2·60?
1886	July 25	VIII	Sale, Brooklands.....	2·58	1	0	2·58
1899	July 22	V	Dorchester Water Works.....	2·56	1	0?	2·56?
1875	July 22	V	Trowbridge, Sunnyside.....	2·53	1	0	2·53
1875	June 29	III	Cardington.....	2·50	1	0	2·50
1886	July 25	IX	Wakefield, Stanley Vicarage...	2·50	1	0	2·50

Table XV.—*Heavy Falls in Short Periods in* 1934.

County and River Division.	Station.	Date.	Amount.	Duration.	Rate per Hour.
	(a) EYE OBSERVATIONS		in.	min.	in.
Somerset 4	Dodington	Sept. 4	·25	5	3·00
Londonderry 3	Garvargh (Moneydig)	July 31	·25	7	2·14
Wilts 1	Trowbridge (Town Hall).....	Sept. 15	1·25	10	7·50‡
Beds. 3	Silsoe (The Red House)	Sept. 15	·78	15	3·12
Middlesex ...1	Hampton (Gloucester Road) .	July 13	·52	15	2·08
Hants 4	Lymington (Woodmancote) .	July 24	·50	15	2·00
Herts 2	Rickmansworth (Valley Road)	June 25	1·23	22	3·35*
Warwick 1	Stratford-on-Avon (Milcote) .	July 18	2·25	25	5·40‡
Hants. 4	Lymington (Woodmancote) .	July 13	·90	30	1·80
Leicester 1	Lutterworth (Leicester Road)	July 18	1·05	31	2·03
Durham 1	Middleton-in-Teesdale (Newbiggin)	Oct. 27	·96	35	1·64
Warwick 1	Stratford-on-Avon (Thurlaston)	July 18	2·03	45	2·71*
Hereford 1	Kimbolton (Grantsfield)	July 12	1·50	45	2·00
Northants ...4	Oundle (Nene Wharf)	July 14	1·45	45	1·93
Sussex 4	Balcombe (The Gables).....	July 22	1·11	45	1·48
Brecon 8	Llanafanfawr School	Aug. 6	2·01	55	2·19*
Middlesex ...2	Winchmore Hill (Elsiedene Road).....	Sept. 15	1·00	55	1·09
Denbigh 1	Wrexham (W.W. Office)	July 13	2·75	60	2·75‡
N. R. Yorks. .5	Castleton	July 18	2·15	60	2·15*
Norfolk 4	Thetford (Lynford Nursery) .	June 25	1·70	60	1·70
Notts. 5	Worksop (Osberton Gardens)	Aug. 2	1·53	60	1·53
Dorset 4	Iwerne Minster (West Lodge)	July 22	1·45	60	1·45
Wilts. 1	Trowbridge (Town Hall).....	July 12	1·15	60	1·15
Warwick 1	Rugby (Bilton Grange)	July 18	2·95	70	2·53‡
Sussex 5	Bexhill (Egerton Park)	June 25	1·42	75	1·14
Kent 5	West Wickham (Oak Lodge)	July 22	3·75	80	2·82‡
Hereford 1	Sarnesfield Court	July 11	2·04	90	1·36*
Middlesex ...1	Sudbury (Station Approach)	July 24	1·26	90	·84
Kent 5	West Wickham (Woodland Way)	July 22	4·55	100	2·73‡
Warwick 1	Dunchurch Hall	July 18	2·92	105	1·67‡
Denbigh 3	Bettws-y-Coed (Rhydycrena)	July 12	3·18	120	1·59‡
Hants. 4	Sway (Gordleton).....	July 13	2·07	120	1·03*
S. Devon.....2	Yelverton (Oakfield)	July 22	2·00	120	1·00*
Gloucester ...3	Stonehouse (Wycliffe College)	July 13	1·50	120	·75
N. Devon 3	Parkham (Melbury Moor) ...	Aug. 1	1·28	120	·64

* "Remarkable" fall. ‡ "Very Rare" fall.

on August Bank Holiday the 6th at Llanafanfawr School, to the west of Newbridge-on-Wye and that of ·48 inches in 6 minutes on the 12th at South Kensington, both of which rank as "remarkable," as well as the fall of ·24 inch in 7 minutes on the 7th at Lerwick Observatory, which is the only entry in the tables for stations in Scotland.

Table XV.—*Heavy Falls in Short Periods in* 1934—(*con.*).

County and River Division.	Station.	Date.	Amount.	Duration.	Rate per Hour.
	(b) AUTOGRAPHIC RECORDS		in.	min.	in.
Hants. 8	South Farnborough (R.A.E.) .	July 13	·20	2	6·00*
Surrey 4	Croydon (Aerodrome)	Aug. 12	·20	3	4·00
Kerry 3	Valentia Observatory	Dec. 8	·20	3	4·00
Surrey 4	Croydon (Aerodrome)	Aug. 2	·20	4	3·00
Kent 2	Manston (Aerodrome)	Aug. 2	·20	4	3·00
Kent 2	Lympe (Aerodrome)	Sept. 17	·20	4	3·00
S. Devon....2	Plymouth (Mt. Batten Aero.) .	May 5	·20	5	2·40
London 2	South Kensington	Aug. 12	·48	6	4·80*
Oxon 3	Upper Heyford (Aerodrome) .	Sept. 15	·39	6	3·90
London 2	St. Pancras (Camden Square) .	July 18	·22	6	2·20
Suffolk 3	Felixstowe (Aerodrome)	June 19	·20	6	2·00
Hants. 8	South Farnborough (R.A.E.) .	June 28	·20	6	2·00
Surrey 4	Croydon (Aerodrome)	July 24	·20	6	2·00
Hants. 4	Calshot (Aerodrome)	Aug. 23	·20	6	2·00
Surrey 5	Kew Observatory	July 18	·75	7	6·43‡
Surrey 5	Kew Observatory	July 22	·39	7	3·36
Shetland ...	Lerwick Observatory	Aug. 2	·24	7	2·06
Surrey 4	Croydon (Aerodrome)	July 22	·39	9	2·60
Suffolk 3	Felixstowe (Aerodrome)	July 13	·39	12	1·95
London 2	St. Pancras (Camden Square) .	Sept. 15	1·10	18	3·67*
London 1	Wandsworth (Tooting Common)	July 22	1·50	30	3·00*
Kent 5	Bromley	July 22	1·20	35	2·05
London 2	South Kensington	July 24	·85	40	1·28
London 2	Kensington Palace.....	July 24	·82	40	1·23
N. R. Yorks. 2	Felixkirk (Mt. St. John).....	July 13	1·22	50	1·46
Hants. 5	Worthy Down (Aerodrome) ..	July 13	·93	50	1·12
Lincs. 3	Cranwell (Aerodrome)	July 18	1·00	60	1·00
Suffolk 2	Copdock	July 13	1·48	120	·74

* "Remarkable" fall. ‡ "Very Rare" fall.

Of the seven entries in the tables for September, on the 4th, 14th and 15th, that for Trowbridge on the 15th ranks as "very rare." Although the total rainfall was similar in amount to that recorded on the 12th July the intensity on the later occasion was much greater. The Surveyor to the U.D.C. reports that on the 15th rain commenced at 14h. 30m. changed to hailstones the size of ordinary marbles (a few were the size of pigeon's eggs), and was subsequently followed by the heavy deluge; by 14h. 40m. 1·25 inches had fallen. Another storm began sometime after 15h. The rainfall was again measured at 16h. 15m. when an additional ·52 inch was recorded.

At Newbiggin-in-Teesdale the total rainfall for the five days October 23rd to 27th amounted to 4·39 inches, of which ·96 inch fell

between 7h. 45m. and 8h. 20m. on the 27th. Reference should also be made to a measurement of ·20 inch in 3 minutes at Valentia Observatory, in the south-west of Ireland, on December 8th since only two entries for Ireland are given in the tables.

In the preceding section the material has been provided both from autographic records and from eye observations at any of the 5,000 rainfall stations. Another method of dealing with the frequency of heavy falls of rain is to confine attention to the stations with autographic records and to examine the traces for all the rain which occurs at these stations. That has been done for the stations set out in Table XVI(a), which was first introduced in *British Rainfall*, 1925. In the tabulations on which the classification is based, the shortest interval in which ·2 inch (5 mm.) falls is entered for each day on which so much rain occurs; similarly with falls of ·4 inch and 1 inch. Cases in which a fall of the given amount occupied parts of two days are included, but attention is confined to falls not exceeding 24 hours duration and only one fall of the given amount is credited to any calendar day. In the classification adopted in Table XVI(a), the first time limit for each of the stated amounts is nearly in accordance with the specification of a noteworthy fall (*see* diagram) and corresponding entries will be found in Table XV.

In Table XVI(b) the information given in the corresponding tables in *British Rainfall* 1925 to 1934 has been summarised. The positions of the stations are shown in the map in the preceding section. The table indicates that intense falls of short duration are more frequent in south-east England than elsewhere, and that heavy falls of longer duration are more frequent at the wetter stations. The mean values given in the last three lines of the table are of interest in connection with the form of the curve used for defining "noteworthy" falls. They show that the "noteworthy" limit is reached respectively about 8 times, 4 times, and once in ten years at the average station, when falls of 0·2 inch, 0·4 inch and 1·0 inch are considered. It is clear, therefore, that the revision of the diagram so as to provide curves representing a more uniform frequency of incidence, is a matter of some urgency.

Table XVI(a).—*Number of Days on which specified amounts of Rain fell in specified times during* 1934.

County.	Place.	0·2 inch.				0·4 inch.				1 inch.			
		6 min. or less.	15 min. or less.	30 min. or less.	60 min. or less.	15 min. or less.	30 min. or less.	60 min. or less.	2 hours or less.	1 hour or less.	2 hours or less.	5 hours or less.	24 hours or less.
London	Camden Square.....	2	3	4	6	2	2	2	3	1	1	1	1
Surrey	Croydon.....	4	5	7	10	1	2	3	5	0	0	0	1
,, ...	Kew Observatory.....	2	3	4	6	2	2	2	3	1	1	1	1
Kent	Lympne	1	2	5	9	0	1	1	2	0	0	0	2
Hants.....	Calshot	0	0	5	10	2	2	4	5	0	0	1	2
,, ...	South Farnborough	2	2	5	7	0	1	1	2	0	0	0	0
Oxford	Upper Heyford	1	3	5	8	1	1	1	3	0	0	0	0
Suffolk	Felixstowe	2	2	4	8	1	1	2	2	0	0	1	2
Wilts.....	Boscombe Down	0	2	4	11	0	0	2	3	0	0	0	0
Devon	Mount Batten.....	1	2	4	11	0	2	2	3	0	0	0	3
Lincoln	Cranwell	1	1	3	4	0	1	1	1	1	1	1	1
Lancashire	Barton	0	1	3	11	0	0	0	2	0	0	0	2
,, ...	Southport	0	2	4	7	0	1	1	2	0	0	1	1
N.R. Yorks....	Catterick	0	1	3	8	0	0	0	1	0	0	0	0
Flint.....	Sealand	0	0	0	2	0	0	0	2	0	0	0	1
Anglesey	Holyhead	0	0	5	12	0	0	1	3	0	0	1	4
Dumfries.....	Eskdalemuir Observatory	0	1	5	20	0	1	2	10	0	0	0	19
Ayr	Kilmarnock	0	1	1	8	0	0	1	1	0	0	0	2
Renfrew	Renfrew	0	0	1	13	0	0	0	7	0	0	0	4
Fife	Leuchars	0	2	4	8	0	0	0	3	0	0	0	3
Aberdeen	Aberdeen Observatory..	1	3	6	14	0	0	0	2	0	0	1	3
Shetland	Lerwick.....	1	1	2	7	0	0	1	2	0	0	0	1
Co. Kerry	Valentia Observatory ...	1	2	7	20	1	1	5	8	0	0	0	12
Co. Armagh....	Armagh.....	0	3	4	9	0	1	1	5	0	0	0	3
Co. Antrim	Aldergrove.....	1	5	9	16	0	3	4	9	0	2	2	5

The falls are not necessarily continuous nor are they always confined to one calendar day. Not more than one fall of each specified amount is credited to any day; if more than the specified amount fell on any day, that part of it which fell in the shortest time is used for the table.

An entry in any of the first three columns under each of the headings 0·2, 0·4 and 1 inch naturally recurs in the column or columns to the right.

Hourly values of the amount and the duration of the rainfall for the four Observatories Aberdeen, Eskdalemuir, Kew and Valentia are published subsequently in *The Observatories' Year Book*.

Table XVI(b).—*Total Number of days on which specified amounts of Rain fell in specified times during the* 10 *years* 1925 *to* 1934.

County.	Place.	Average Annual Rainfall in.	0·2 inch.				0·4 inch.				1 inch.			
			6 min. or less.	15 min. or less.	30 min. or less.	60 min. or less.	15 min. or less.	30 min. or less.	60 min. or less.	2 hours or less.	1 hour or less.	2 hours or less.	5 hours or less.	24 hours or less.
London ...	Camden Square.....	24·5	3	21	40	77	4	10	16	25	3	3	4	13
Surrey	Croydon	26·7	9	20	51	96	1	6	14	37	0	1	4	25
,, ...	Kew Observatory	23·8	16	28	44	85	6	13	18	34	4	4	5	15
Kent	Lympne	28·5	10	24	57	113	7	12	15	38	0	0	6	27
Hants.....	Calshot	25·5	6	18	42	94	6	11	20	31	0	2	7	26
,, ...	South Farnborough	26·1	12	29	58	97	4	9	19	39	2	2	4	25
Suffolk ...	Felixstowe	20·3	9	20	41	65	4	6	14	24	1	1	3	8
Devon	Mount Batten	33·1	6	16	43	117	3	7	15	41	0	1	8	44
Lincoln ...	Cranwell	23·2	9	16	36	64	2	5	8	23	2	2	3	12
Lancashire	Southport	32·0	7	18	40	106	4	5	8	30	0	1	2	25
Flint.....	Sealand	26·0	7	18	29	73	4	5	10	27	1	1	2	16
Anglesey ..	Holyhead	34·9	4	19	48	121	0	3	11	44	0	0	5	36
Dumfries .	Eskdalemuir Observatory	56·3	10	28	82	243	3	9	25	111	1	1	21	141
Renfrew...	Renfrew	37·0	9	17	38	110	5	7	10	40	0	1	4	37
Fife	Leuchars	25·7	11	19	32	65	4	7	10	25	1	1	3	26
Aberdeen .	Aberdeen Observatory..	29·5	6	18	35	89	1	2	6	19	0	0	7	29
Co. Kerry .	Valentia Observatory ..	55·7	4	16	66	194	3	4	16	75	0	0	5	80
Co. Armagh	Armagh	31·7	6	26	42	84	3	11	15	26	1	1	4	14
Mean for England and Wales (12) ...		27·0	8·2	20·6	44·1	92·3	3·8	7·7	14·0	32·7	1·0	1·5	4·4	22·7
Mean for Scotland and Ireland (6) ..		39·3	7·7	20·7	49·2	130·8	3·2	6·7	13·7	49·3	·5	·7	7·3	54·5
Mean for British Isles (18)		31·1	8·0	20·6	45·8	105·2	3·6	7·3	13·9	38·3	·9	1·2	5·4	33·3

7. HEAVY FALLS ON RAINFALL DAYS IN 1934.

The daily measurements of rain which are set out in this Section are (*a*) those of falls of 2·5 inches or more in the rainfall day, and (*b*) those of falls which amount to at least 7·5 per cent. of the total recorded for the year 1934. A fall of 2½ inches in a day at any station is sufficiently remarkable to be noticed, but as such heavy falls are more frequent in the normally wet areas of mountain districts than elsewhere, the criterion of 7½ per cent. was introduced to admit certain falls of less than 2½ inches in areas where the total rainfall for the year is less than 33·3 inches. In this way daily falls which are heavy in relation to the local standard are not neglected.

A summary of the information given in this section in each of the seventy volumes of *British Rainfall* from 1865 to 1934 is set out in an article in Part IV, to which attention is especially directed.

The greatest amount measured in a day in 1934 was 4·70 inches, on July 22nd, at West Wickham, in Kent, and this fall gave the highest percentage for the year *viz.*, 14·7.

TABLE XVII.—*Maximum Daily Fall and Maximum Percentage, 1865 to 1934.*

A complete list of the absolute maximum daily rainfall and the absolute maximum daily percentage reported for each year from 1865 to 1934 is given on p. 270 in the special article in Part IV.

The table shows that the maximum daily amount for 1934 of 4·70 inches is not remarkable, since larger entries have occurred in each of the previous 37 years except three *viz.*, 1925, 1919 and 1910 with a maximum of 4·13, 4·50 and 4·51 inches respectively. The maximum percentage for 1934, *viz.*, 14·7, was more noteworthy since no entry as large occurred in any of the recent years, 1930, 1928, 1927, 1926 or 1925.

Particulars of the ten largest falls of the year 1934 are given in Table XVIII. The table shows also the year's total at each of the stations and the percentage of that total which is accounted for by the highest daily fall.

TABLE XVIII.—*The largest Daily Rainfalls in* 1934.

Date.	Div.	Station.	Depth.	Per cent. of Year.	Total for Year.
			in.	%	in.
July 22	II	W. Wickham (Woodland Way) ..	4·70	14·7	31·85
Sept. 30	XI	Snowdon (Cwm Dyli) No. 11	4·16	3·5	119·56
Sept. 30	X	Buttermere (Hassness)	4·10	3·6	113·70
July 12	XI	Ebbw Vale (Iron Wks.)	3·92	7·0	56·22
July 12	XI	Wrexham (Beechley Rd.)	3·85	12·4	31·55
Oct. 24	XXII	Aasleagh House	3·81	3·2	120·31
Aug. 2	XIV	Girvan (Glendoune Gdns.)	3·80	7·8	(48·71)
Aug. 1	XXI	Mountrath (Baunreagh)	3·62	6·3	57·43
Sept. 30	X	Watendlath Farm	3·50	3·3	106·12
Oct. 11	XVIII	Loch Arkaig (Glendessary)	3·50	2·8	126·50

The total number of heavy falls qualifying for inclusion in this section is 157 compared with 708 in 1933. The number of falls of 3 inches or more in 1934 for England and Wales, Scotland and Ireland, was 21, 8 and 5 compared with 125, 22 and 4 in 1933, 158, 29 and 2 in 1932 and 250, 11 and 9, in 1931. The number of entries of 4 inches or more during 1934 was 3 compared with 19 in both 1933 and 1932 and 114 in 1931. The year 1934 was remarkable for the small number of entries qualifying for inclusion in this section and for the few falls giving as much as 4 inches on a rainfall day.

In the tables included in the following account of the heavy falls of the year, a daily fall which is the maximum fall for the year at the station is indicated by ordinary roman type; other falls are in *italics*.

CHRONICLE.

The amounts in this section cover the 24 hours commencing at 9 a.m. G.M.T. on the day of entry.

Entries are available for six days in *January*, but in each case the heavy rain was confined to small areas in mountainous regions.

January 3rd.

Westmorland.	*in.*	or %
New Dungeon Ghyll Hotel	2·56	2·3
Argyll.		
Ardgour House	3·00	2·8
Glenleven (Blackwater D.)	2·65	2·5
Glen Etive	3·00	2·6
Perth.	*in*	or %
Tyndrum Manse	2·60	2·5
Inverness.		
Loch Arkaig (Glendessary).	*3·30*	*2·6*
Loch Quoich (Glenquoich).	2·91	2·4
Clunes (L. Lochy, W.)	2·90	3·8

The heavy rain was associated with the passage of a secondary depression quickly to the north-east of Scotland.

January 6th.

Cumberland.	*in.*	or %	*Cumberland.*	*in.*	or %
Borrowdale (The Moraine)	*3·33*	*2·8*	Watendlath Farm	*2·75*	*2·6*

The total rainfall for the six days January 2nd to 7th at Borrowdale (The Moraine) was 9·85 inches.

January 10th.

Kirkcudbright.—Backhill of the Bush .....2·66 *in.* or 3·6 per cent

The total for the two days January 9th and 10th at Backhill of the Bush, at the headwaters of the Black Water of Dee draining to Kirkcudbright, was 4·97 inches.

January 11th.

Westmorland.—Patterdale (Greenside Mine) .....*2·50 in.* or *2·5* per cent.

January 13th.

Glamorgan.	*in.*	or %	*Glamorgan.*	*in.*	or %
Rhondda W.W. (Llyn Fawr R.)	2·65	2·6	Treherbert (Tyn-y-waun) *old g.*	2·63	2·8
Rhondda (Castell Nos. Res.) *new g.*	2·57	2·9			

January 16th.

Cumberland.	*in.*	or %	*Argyll*	*in.*	or %
Borrowdale (The Moraine).	*2·60*	*2·2*	Morvern (Kingairloch) ..	*2·52*	*2·3*
Watendlath Farm	*2·68*	*2·5*			

Many stations in England and the south-east of Scotland experienced an absolute drought during the first three weeks of *February* (see Section 3). This was followed by the development of a northerly current over the British Isles and very cold air prevailed on the 26th. Widespread snow or sleet fell between the 26th and 28th and the total precipitation for the 27th at two stations near York qualified for mention in this section. Most of Scotland was covered with snow on the 26th and snow lay to a depth of 5 inches at York and Castleton on the morning of the 28th. Snow fell in the Scilly Isles with a temperature of 31° F. at 1h. on the 27th, an unusually low reading for that locality.

February 27th.

Yorkshire.	*in.*	or %	*Yorkshire.*	*in.*	or %
York (Middlethorpe Hall).	1·91	8·7	York (Bishopthorpe Road).	1·58	7·5

Although more than twice the average rainfall occurred during *April* over a broad strip along the east coast of Scotland from Sutherlandshire as far south as Durham only two daily amounts qualify for inclusion in this section.

April 7th.

Sutherland.—Loch More (Achfary) .....3·44 *in.* or 3·7 per cent.

The total precipitation at Loch More (Achfary) during the three days April 6th to 8th amounted to 5·62 inches. Heavy snow fell over Scotland generally during this period.

April 12th.

Kincardine.—Banchory (Woodlands Sch.).....2·61 *in.* or 5·9 per cent.

The total at Banchory (Woodlands School) for the three days April 10th to 12th amounted to 4·85 inches, while as much as 3·01 inches fell on the 7th and 8th. It was mainly the rainfall of these two periods which made April the wettest month of the year in this locality.

May 15th.

Yorkshire.	*in.*	or %
Slaidburn (Langden Brook)	2·53	3·4

Merionethshire.	*in.*	or %
Blaenau Festiniog (Oakeley)	*2·50*	*2·4*
Blaenau Festiniog (Llechwedd)	*2·74*	*2·5*

The total rainfall for the seven days May 15th to 21st at Langden Brook, in the mountainous district to the west of Slaidburn, amounted to 5·29 inches and at Llechwedd Quarries to 7·81 inches.

June 25th.

Norfolk.—Thetford (Lynford Nursery) .....*1·72 in.* or *8·3* per cent.

Only one entry is available for this section for June, although many thunderstorms occurred during the month especially during the period 23rd to 28th.

July 8th.

Buckinghamshire.—Olney (Gresham House) .....2·24 *in.* or 10·4 per cent.

July 12th.

Wiltshire.	*in.*	or %
Holt (The Retreat)	2·95	9·6
Herefordshire.		
Sarnesfield Court	2·04	8·1
Kimbolton (Grantsfield)...	2·52	9·7
Byton Rectory	2·27	7·9

Monmouth.	*in.*	or %
Ebbw Vale (Iron Works)..	3·92	7·0
Glamorgan.		
Pontypridd (Llanfabon) ..	*2·56*	*3·9*
Denbigh.		
Bettws-y-Coed (Rhydycrena)	3·18	6·4

July 13th.

Hertfordshire.	*in.*	or %
Royston (Therfield Rectory)	1·64	7·9
Northamptonshire.		
Raunds (Council School) ..	1·98	10·5
Barnwell (Lilford Hall)....	1·76	9·3
Oundle (School)	1·78	10·9
Oundle (Milton Road)	1·83	10·7
Oundle (Nene Wharf)	1·96	10·3
Bedfordshire.		
Stotfield (Mental Hos.)....	2·49	14·5
Essex.		
Danbury Park Gardens...	1·50	7·7
Chelmsford (Little Baddow)	1·75	9·1
Langford (Treatment Plant)	1·74	8·5
Witham (Wickham Hall)..	1·87	9·5
Little Leighs (Lavender Leez)	1·49	8·0
Felsted School	1·50	7·7
Rayne (Staneway)	1·61	7·8
Suffolk.		
Herringfleet House	2·76	12·1
Hopton (Hopton House)..	1·59	8·2
Suffolk.		
Fritton Warren	3·10	13·5
Fritton Hall	2·70	12·2
Norfolk.		
Gorleston (C.G. Station) ..	2·32	11·1
Thetford (Kilverstone Hall)	1·60	7·5
Gloucestershire.		
Miserden Park	2·82	9·0
Gloucester (The Park)	1·58	7·5
Churchdown (Barrow Hill).	1·90	8·0
Warwickshire.		
Leek Wootton (The Lodge)	2·13	8·4
Nottinghamshire.		
Nottingham (Wilford Hill Res.)	1·58	7·7
Yorkshire.		
Maunby Hall	2·14	8·3
Helmsley (Boys' School) ..	2·64	8·1
Denbigh.		
Wrexham (Beechley Rd.) .	3·85	12·4

Additional details of the thunderstorm rains of July 12th and 13th are given in Section 6, Heavy Falls in Short Periods. It is worthy of note that a fall on the 12th qualifies for inclusion in this section for the west of Denbighshire, while the heavy rain at Wrexham, to the east of Denbighshire, was experienced during the afternoon of the 13th. Both storms were local, very little rain being experienced in the east on the 12th and in the west of Denbighshire on the 13th.

July 18th.

Warwickshire.	*in.*	or %
Stratford-on-Avon (Thurlaston)	2·04	9·9
Stratford-on-Avon (Milcote)	2·25	10·2
Dunchurch Hall	2·92	12·6
Stretton-on-Dunsmore ...	2·07	9·0
Rugby (Bilton Grange) ...	3·01	12·7
Warwickshire.		
Rugby (Caldecott)	1·74	8·1
Rugby (Avon W.W.).	1·91	9·1
Lincolnshire.		
Grantham (Central Sch.)..	1·94	9·5
Blankney Hall Gardens ..	1·91	8·5

It is of interest to note from the article on heavy falls on rain-days in Part IV that as much as 4 inches in one day has never been recorded in Warwickshire, the largest amount being 3·87 inches recorded at Coventry on December 30th, 1900.

July 22nd.

Kent.	in.	or %	*Hampshire.*	*in.*	or %
Beckenham (Park Langley)	3·00	11·8	Rotherwick (Tylney Hall).	2·75	10·7
W. Wickham (Woodland) Way)	4·70	14·7	*Middlesex.*		
W. Wickham (Council School)	2·80	9·5	Twickenham (Sewage Wks.)	1·65	8·2
			Glamorgan.		
			Pontypridd (Llanfabon)...	2·57	3·9

July 24th.

Kent.	in.	or %	*Essex.*	*in.*	or %
Deal (Wellington Road) ..	2·10	8·4	Southend (The Cliffs)	1·27	8·1
			Thundersley Reservoir ...	1·88	9·7

Additional details of the thunderstorm rains of July 18th, 22nd and 24th are given in Section 6. Upper air observations show that there was a marked falling off in the temperature with height during the period 21st to 24th, the decrease in temperature between 3,000 and 16,000 feet being about 10° F. The low temperatures of the upper air which made possible the storms of the 24th was surprising in view of the fact that warmer air had already become apparent at the surface along the west coast of Ireland.

The following notes have been kindly forwarded by the Rev. A. R. Tucker, rainfall observer at Leasingham, near Sleaford, after a visit to the Temple Bruer Farm 5 miles to the north of Sleaford :—

> The thunderstorm which broke over Sleaford and district on July 18th although severe, was light compared with that which occurred in the parish of Brauncewell and Temple Bruer, causing serious damage to the farms of Lord George Seymour, Mr. Andrews, and Mr. Mowbray Mountain. This devastating storm seems to have traversed the small area between the High Dyke, from the Cocked Hat plantation and the Brauncewell Lane on the west, and Brauncewell school and Warren Lane End on the Lincoln-Sleaford ramper. The land in this area slopes from the High Dyke to the Sleaford ramper, with a valley in the centre, through which the flood waters rushed. On the Temple Farm, a field of winter barley was stooked, and the rush of water through the valley was so great that the sheaves were carried above the two fields of standing corn, and deposited on the Warren Lane, where it meets the Green Lane leading to the Temple school. In the valley the flood water encountered two stone walls, which were hurled 50 yards. It next encountered a hedge in the valley, and this was torn up by the roots, and deposited in the middle of the standing barley in the next field. Mr. Andrews is certain that there must have been at least six inches of rain, because a bucket which stood outside his house was three-parts filled with rain water. It is unfortunate that there was no rain-gauge to measure the exact amount, but, after making a careful examination of the ground in this area, I am inclined to think that it is not over-estimated, although six inches of rain is seldom registered in England. A large field of turnips on Mr. Mountain's farm presented a woeful appearance, the soil was washed down into a valley, and entirely covered the turnips recently drilled. Among the debris I noticed many moles that had been drowned, and there were water courses three feet wide and one foot deep. In

addition to the abnormal rain there was a remarkable ice storm which lasted for half an hour. Windows were broken at Mr. Andrews' house, and the fruit crops were entirely destroyed. The plums were lying on the ground, and the apples and walnuts were so damaged that, unless they were seen, one could not believe it possible so to cut up the fruit. The ice storm caused the most serious damage to the barley crops and sugar beet. Mr. Andrews has 270 acres of sugar beet, and most of the leaves were cut and badly damaged. The barley crops also suffered severely. As I walked through the fields I found every ear of corn dashed to the ground, and the stems were broken in large number. Mr. Andrews thinks that the ice pellets have destroyed one-third of his barley.

August 1st.

Leix.	*in.*	or %	*Down.*	*in.*	or %
Mountrath (Baunreagh) ..	3·62	6·3	Silent Valley (Belfast W.W.)	2·63	4·7

The entry of 3·62 inches for Baunreagh is the largest for one day on record for Leix, the previous longest being that of 3·33 inches recorded at that station on June 12th, 1919.

August 2nd.

Ayrshire.—Girvan (Glendoune Gardens) .....3·80 *in.* or 7·8 per cent.

The following notes have been taken from a report prepared for the Girvan Town Council by Mr. David A. Donald :—

There is only one rain-gauge in the catchment area of the Burn, which runs northward to the River Girvan, and this is situated at Glendoune at the foot of the hills where rainfall is always less than at greater elevations, so that its indications are certain to be below the average precipitation over the whole drainage area. The rainfall during the twenty-four hours ending at 9 a.m. on August 3rd, as measured at the rain-gauge was 3·80 inches, the whole of this occurred within eight to ten hours commencing about 14 h. on the afternoon of August 2nd. Whilst the rainfall over the whole of the period was very heavy, it was particularly intense for about four hours and was accompanied by severe and continuous thunder rolling backwards and forwards in the hills. A run-off at a rate of ·38 inch per hour (corresponding to a rainfall of 3·80 inches in 10 hours) from the whole of the drainage area would represent a flow in the Mill Burn of 356 cubic feet per second, or exactly double that necessary to fill the smaller section of culvert at Hamilton Street, and much more than necessary to cause heavy flooding at the Pursuer's property and elsewhere. It can hardly be doubted, however, that the actual rainfall on the drainage area was considerably higher than 3·80 inches and that it was not precipitated with uniform intensity over the whole period of the storm, but that for some period the intensity was much higher than the average. The catastrophic nature of the rainfall on this occasion is borne out by inspection of the drainage areas and by the disastrous happenings where the streams debouched upon relatively level ground, of which the evidences are still to be seen on every hand. Thus, where the Doune Burn after flowing under the Railway Bridge passes through the gardens at Glendoune and enters (between Glendoune Farm and Coalpots Bridge) upon the flat section of its course, huge quantities of boulders and smaller stones and gravel have been deposited, with the result that the stream course (here about 10 feet in width) was completely choked, and the water overflowed its banks at

different points carrying quantities of stones with it and scouring channels in the fields on either side, some of considerable depth. As the levels of the ground are such that water could and doubtless did flow generally over the whole area, the presence of these channels is particularly remarkable. With the arrival of more and more stones this chokage would extend further and further upsteam, and fresh channels were scoured out. One in particular 4½ feet wide and 2 feet deep started just below the Railway Bridge and after running some distance parallel to the left bank of the stream rejoined it above the Farm. At the same time the garden was largely buried in gravel in the part below the terrace to a depth of 2 feet 6 inches. The marks painted on the greenhouse windows here to indicate the level reached by the water are 3 feet 8½ inches above the ground. Amongst other damage done in this vicinity sixteen yards of the wall supporting the right bank downstream from the garden and ten yards of the same wall at the garden were washed out, and the banks were washed away above the bridge leading to the garden. I saw huge boulders (weighing perhaps one and a half tons each) which had been brought down by the stream and I was informed that many more had been blasted away. Further upstream the masonry weir at the intake to the Estate water supply was destroyed. Large and numerous slips have occurred at intervals in the banks of the ravines of the Doune Burn and its feeder from the Laggan Loch all the way up but particularly in the neighbourhood of the confluence, where also a great deposit of boulders has been formed. From an inspection of the records at other rain-gauges in the surrounding districts, as also from the descriptions of the storm given me by various eye-witnesses, it is clear that this storm was local in its occurrence and was of the nature of what is commonly called a " cloudburst " or even of two cloudbursts occurring very close together. From my inspection of the drainage areas I am of opinion that the focus of the cloudburst on the Doune Burn was at about the 500-foot contour level (*i.e.*, about 100 feet higher than the confluence) and at about the 600-foot contour level in the Saugh-hill Burn area.

August 5th.

Devonshire.	*in.*	or %	*Cornwall.*	*in.*	or %
Dousland Reservoir	2·63	4·3	St. Keyne (Locrenton)....	2·69	5·1
South Brent (Brent Moor).	*2·52*	*2·7*			

The heavy rain of August 5th was more widespread and of longer duration than that of the 2nd, which was of the thunderstorm type. At Princetown Prison the total rainfall for the 5th was 2·08 inches and the duration 14·6 hours.

August 11th.

Ross-shire.—Glenmoriston (Cluanie Inn.).....2·57 *in.* or 2·1 per cent.

September 15th.

Northamptonshire.—Hardwick P.S. .....1·72 *in.* or 9·5 per cent.

Although only one entry qualifies for inclusion in this section widespread and severe thunderstorms occurred over the country on this day. In western districts they occurred at a cold front but in eastern England severe convectional storms occurred locally, commencing some six hours before the cold front arrived and these were not directly

related to it. The heavy rains were associated with a shallow depression which moved northwards from France in the mass of warm air.

The total of 1·72 inches recorded at Hardwick Pumping Station, near Wellingborough, was the largest amount recorded in that locality since September 3rd, 1931. At Trowbridge, in Wiltshire, 1·25 inches fell in 10 minutes on September 15th (see Section 6).

September 25th.

Argyll.	*in.*	or %	*Argyll.*	*in.*	or %
Ardnadam (Hafton Ho.) ..	3·16	4·0	Morven (Kingairloch)	2·53	2·3

September 30th.

Cumberland.	*in.*	or %	*Westmorland.*	*in.*	or %
Borrowdale (The Moraine).	3·49	3·0	Rydal (High Close)	3·02	3·5
Watendlath Farm	3·50	3·3	Rydal (The Hall)	2·89	3·3
Buttermere (Hassness) ...	4·10	3·6	New Dungeon Ghyll Hotel	2·56	2·3
			Kentmere Head Reservoir	*2·65*	*2·6*
Westmorland.			Grasmere (The Wray)	2·96	3·0
Patterdale Hall	2·66	2·7			
Patterdale (Greenside Mine)	3·39	3·5	*Carnarvon.*		
Rydal (The Stepping Stones)	2·55	3·0	Snowdon (Cwm Dyli) No. 11.	4·16	3·5

The widespread rain of September 30th was associated with the passage of a slow moving cold front across the country with a belt of continuous rain behind it. The duration of the rainfall was 18 hours at both Cray Reservoir in South Wales and on Snowdon, 16 hours at Holyhead and 15 hours at Bala.

October 6th.

Westmorland.	*in.*	or %	*Merioneth.*	*in.*	or %
Kentmere Head Reservoir.	2·85	2·8	Blaenau Festiniog (Oakley Q.)	3·10	3·0
Glamorgan.					
Rhondda W. W. (Llyn Fawr Res.)	*2·50*	*2·5*	Blaenau Festiniog (Llechwedd Q.)	3·20	2·9
Rhondda (Lluest Wen Filter) *new g.*	2·62	3·3			
Rhondda (Lluest Wen Res.)	2·84	3·6			
Treherbert (Tyn-y-Waun) *old g.*	*2·55*	*2·7*	*Carnarvon.*		
			Snowdon (Cwm Dyli) No. 11.	*3·18*	*2·7*

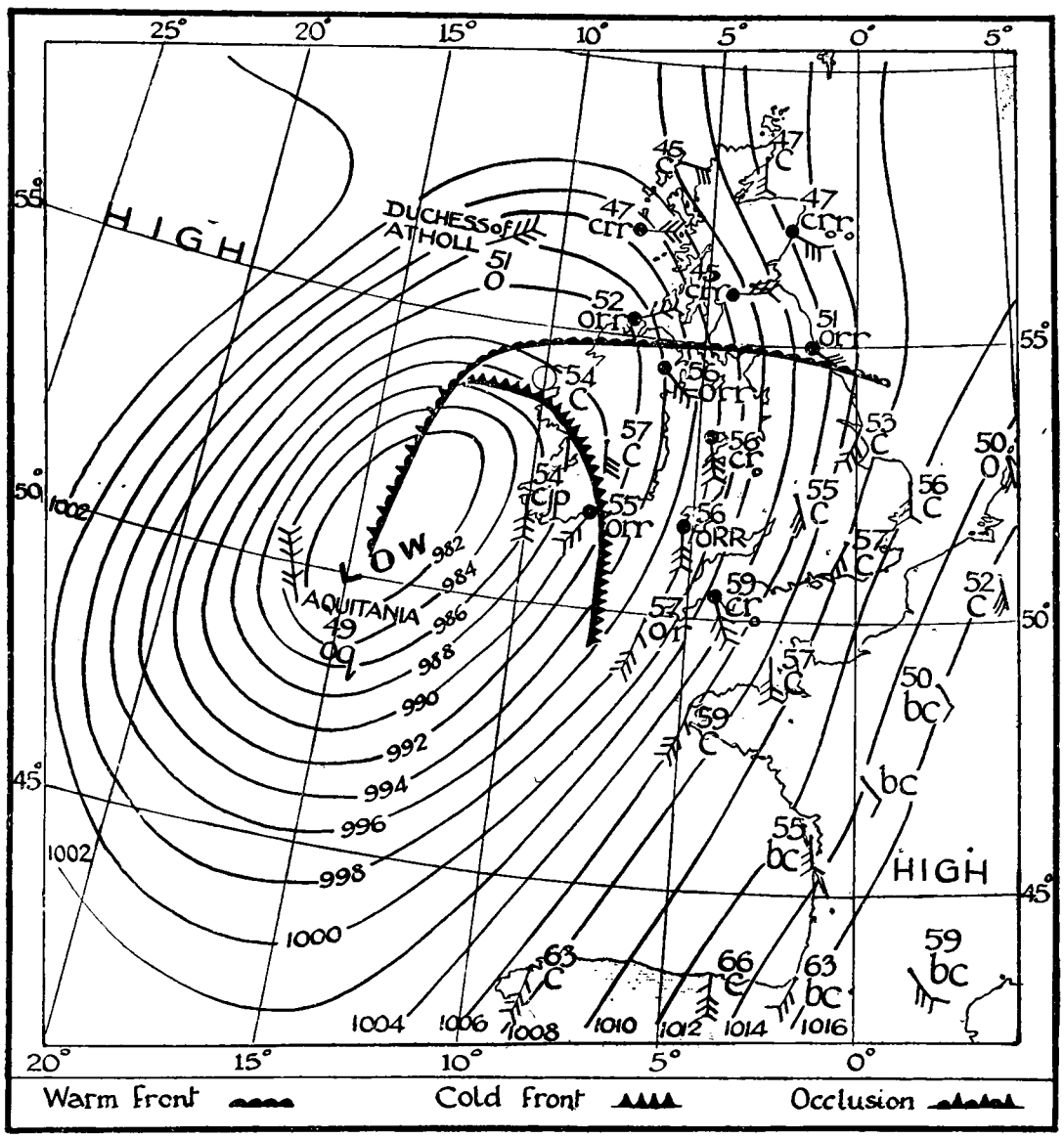
The total rainfall recorded for the five days October 3rd to 7th at Llechwedd Quarries was 5·92 inches and on Snowdon as much as 7·00 inches.

October 11th.

Inverness-shire.—Loch Arkaig (Glendessary).....3·50 *in.* or 2·8 per cent.

October 21st.

Cumberland.—Buttermere (Hassness) .....*2·54 in.* or *2·2* per cent.



Synoptic Chart, 25th. October, 1934, 7h

October 24th.

Kerry.	*in.*	or %
Valentia Observatory	3·33	5·4
Killarney (Lake View) ...	2·76	4·4
Kenmare (Sheen Hills) ...	3·30	4·1
Galway.		
Moycullen	2·85	5·3
Mayo.	*in.*	or %
Delphi Lodge	2·65	2·3
Aasleagh House	3·81	3·2
Fermanagh.		
Florence Court.....	3·27	5·7
Down.		
Mourne Mts. (Fofanny Res.)	2·85	3·5
Tyrone.		
Castlecaulfield (Parkanaur)	2·89	6·4

October 25th.

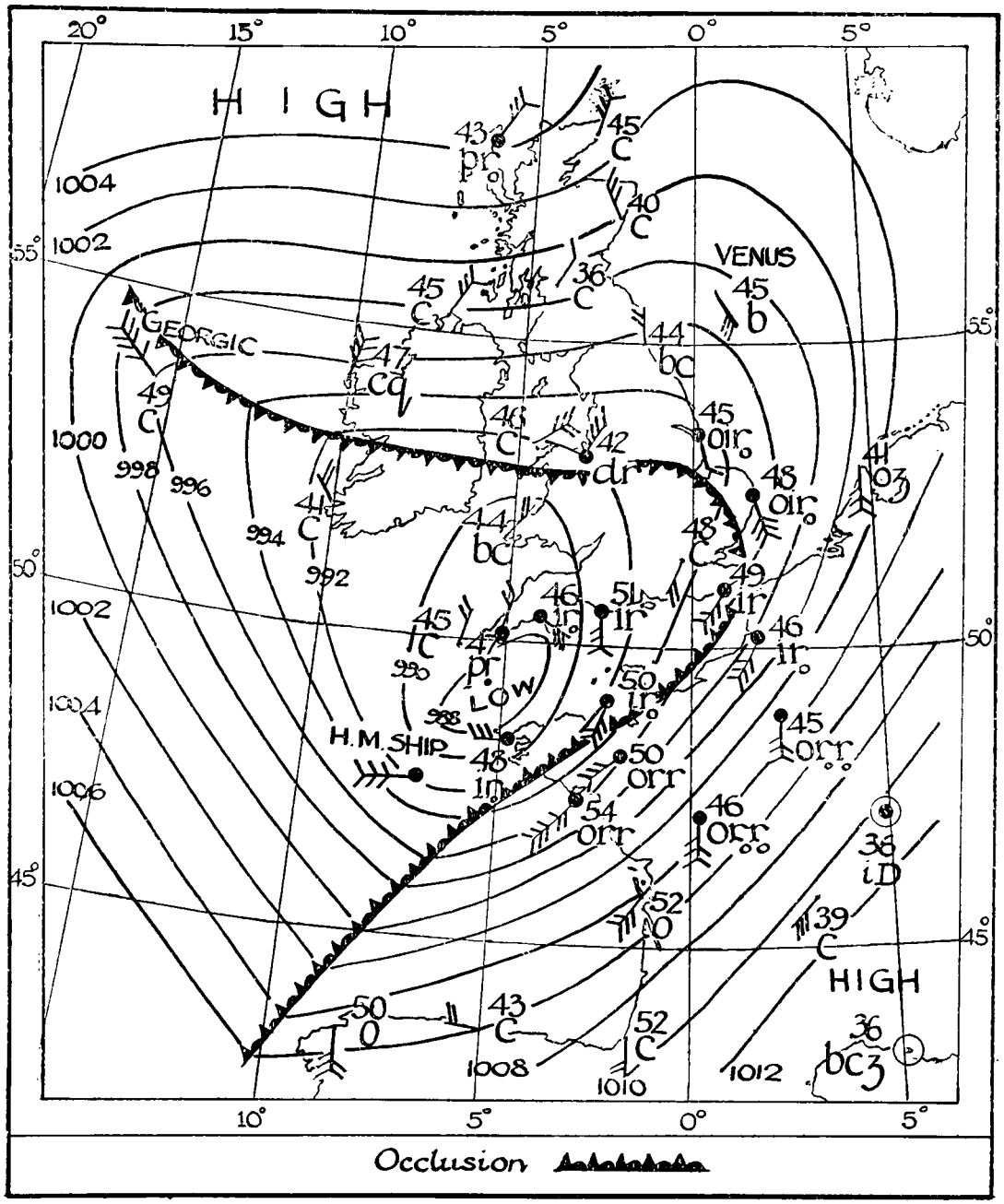
Cumberland.	*in.*	or %
Buttermere (Hassness) .. .	*2·60*	*2·3*
Perth.	*in.*	or %
Loch Dhu	2·60	3·1

The entry for Florence Court for October 24th is the first daily amount exceeding 3·00 inches on record for any station in Fermanagh. The duration of rainfall for that day at Valentia Observatory was 21 hours. A large depression approached the south-west of Ireland on the 24th and moving north-east and then north, coalesced with another depression over Iceland. Heavy rain was widespread over Ireland and parts of Scotland and considerable flooding resulted. The deep depression near Iceland eventually moved eastward and, behind it, a current of polar air swept over the country, causing a cold spell of somewhat unusual severity for the time of the year. Snow was general in Scotland on the last two days and occurred locally even in the south of England, on the 31st. It lay to a depth of from 4 to 8 inches at West Linton, 5 inches at Wolfelee and 4 inches at Bellingham on the 31st.

November 8th.

Kent.	*in.*	or %
Appledore (The Well House)	2·25	8·1
Kenardington (The Firs) .	2·10	7·9
Ashford (Gas Works)	2·07	7·9
Ashford (Albert Road)	2·09	7·7
Wye (Agricultural College)	2·37	9·1
Canterbury (Medical Hall)	2·25	9·5
Canterbury (London Road)	2·10	8·3
Canterbury (Irrigatn. Wks.)	2·10	8·4
Sussex.	*in.*	or %
Hastings (Newgate)	2·05	7·5
Hastings (Clive Vale)	2·12	7·5
Hastings (Halton Res.) ...	2·41	8·6
Hastings (Fairlight Res.) .	2·38	7·7
Rye (Iden)	2·20	8·2

A complex depression over the western part of the English Channel gave widespread rainfall over southern England. The rain was due to the convergence of damp rather unstable air, assisted by orographical causes. The total rainfall for the three days, November 8th to the 10th at certain stations in Sussex amounted to 4·91 inches at Hassocks, 4·50 inches at Keymer, 4·14 inches at Balcombe and 3·98 inches at Storrington.



Synoptic Chart, 9th November, 1934. 7h.

November 9th.

East Lothian.—East Fortune Sanatorium .....2·28 *in.* or 8·2 per cent.

December 1st.

Devonshire.	*in.*	or %
Whitchurch (Langstone) ..	2·60	4·2
South Brent (Badworthy)	2·97	3·9
South Brent (Brent Moor)	3·10	3·3
South Brent (Didworthy San.)	3·35	4·6
South Brent (Brentmoor House)	2·75	3·2
Dartmoor (Fox Tor)	2·89	3·4
Princetown (H.M. Prison).	2·76	3·2
Cornwall.		
Wendron (Ninemaidens) ..	2·65	4·9

Glamorgan.	*in.*	or %
Briton Ferry (Brynsiriol)..	2·50	5·7
Briton Ferry (Cefn Court)..	2·60	5·5
Neath (Cimla Reservoir)..	2·50	5·5
Neath (Gnoll Reservoir)...	2·57	5·3
Pencoed (Heol-y-Cyw Sch.)	3·25	6·8
Port Talbot (Twyn-yr-Nydd)	2·75	6·5
Pontycymmer	3·44	4·4

December 4th.

Northumberland.—Kirknewton (Coldburn) ....2·72 *in.* or 5·3 per cent.

December 8th.

Devonshire.	*in.*	or %
Chagford (Thornworthy) ..	2·57	3·8

Perth.	*in.*	or %
Glenlyon (Meggernie Castle)	3·10	4·3
Lochearnhead (Edinchip) .	2·51	3·2

December 28th.

Devonshire.—Princetown (H.M. Prison) .....*2·51 in.* or *2·9* per cent.

Although December, 1934, was the wettest month on record in parts of the south-west of England, and one of the wettest Decembers ever experienced over the British Isles as a whole, the month gave few heavy falls for inclusion in this section and most of these were confined to one day, *viz.*, the first. The feature of the weather of December, 1934 was the frequency of rain, accompanied by exceptionally mild conditions. At Princetown Prison the total duration of measureable rainfall was 307 hours or an average of 10 hours per day. At that station rain fell on every day during the month, but the wettest periods were the 8 days, 1st to 8th, and the three days 28th to 30th, which contributed 12·02 inches and 3·83 inches, respectively, out of a total of 25·61 inches. On Brent Moor the total for the first 8 days was 12·58 inches and more than one inch was recorded on as many as eleven days during the month.

The total recorded for the first eight days of December at Brechfa, 10 miles to the north-east of Carmarthen, was 9·13 inches. The Clerk to the River Towy Fishery Board reports that the country was comparatively so dry that the heavy fall on the 1st, of 2·32 inches, did not cause excessive flooding of the rivers. The flood level at Nantgaredig Bridge for December 2nd was 5½ feet and on the evening of the 8th, 9½ feet.

8. MONTHLY RAINFALL IN 1934.

Information as to the rainfall of the months of 1934 is set out in this section in various forms:—

(1) Table XIX (a) gives generalized values of the monthly and annual rainfall over the British Isles as a whole and also over the constituent countries separately.

(2) On pages 78-79 details are given of some of the largest and smallest monthly totals of rainfall reported during 1934.

(3) In Table XX the monthly and annual totals of rainfall are set out for 400 stations, distributed as evenly as possible over the British Isles.

(4) Table XXI gives the monthly and annual falls expressed as percentages of the averages for 1881 to 1915. It is confined to 150 stations, uniformly distributed over the British Isles, for which averages are available. At the end of this table, general monthly and annual percentage values are given for the British Isles and for each of the constituent countries.

(5) A set of twelve maps showing the distribution of the actual rainfall in each month, is reproduced in this article. A thirteenth map on a larger scale depicting the distribution of rainfall for the whole year appears in Section 10. These maps were originally drawn on the much larger scale of 19 miles to the inch, and values from as many as possible of the 5,000 separate stations were plotted on each map before the isohyetal lines were drawn. Details which would tend to confuse the maps on the small scale of the reproductions have been eliminated.

(6) A second set of twelve maps showing cartographically the distribution of the percentage monthly values given in Table XXI and in the rainfall table published month by month in the *Meteorological Magazine* is also reproduced in this article. The corresponding percentage map for the whole year appears later in Section 10.

In Table XIX (b) the average values, taken from the Book of Normals, Table 21A (M.O. 236, Section V), are given for comparison with the values for 1934 given in Table XIX (a).

General Monthly Rainfall.

The general monthly values shewn in Table XIX (a) have been computed by applying the percentage values given at the end of Table XXI to the average general values for the period 1881 to 1915. These computed values have been subsequently slightly adjusted in order that the totals for the year should agree with the totals given in Table XXIII which are based on a more exact determination as explained in the text accompanying that table.

Table XIX (a).—*General Rainfall for* 1934, *computed from the average,* 1881–1915, *by applying the general percentage values given in Tables XXI and XXIII to the General Average Values.*

	England.	Wales.	England and Wales.	Isle of Man.	Scotland.	Ireland.	British Isles.
	in.	in.	in.	in.	in.	in.	in.
January	2·7	5·5	3·1	4·9	6·0	5·1	4·3
February	·6	·5	·6	·3	1·6	·4	·8
March..	2·7	3·7	2·9	3·0	4·0	3·7	3·3
April	2·8	3·5	2·9	2·8	5·7	3·0	3·6
May	1·4	3·4	1·7	3·8	3·7	2·8	2·4
June	1·7	2·2	1·8	3·0	2·5	2·0	2·0
July	1·6	1·4	1·6	0·5	4·1	2·2	2·3
August	2·9	4·9	3·2	3·5	5·2	4·8	4·0
September	2·4	4·0	2·7	4·5	5·3	6·5	4·1
October	2·8	6·0	3·2	6·1	7·8	5·3	4·8
November	2·5	2·7	2·5	2·8	2·5	1·9	2·4
December	6·6	10·8	7·3	11·3	7·0	7·8	7·4
Year	30·7	48·6	33·5	46·5	55·4	45·5	41·4

So far as the total rainfall experienced over the British Isles is concerned the rainfall during 1934 can be considered in four periods :— (1) January to April, totalling ·8 inch short of the average, in spite of the very dry February ; (2) the three months, May, June and July, each moderately dry, giving an accumulated deficiency of 1·8 inches ; (3) August to November, giving almost precisely the average amount ; and (4) December, with an excess of 2·7 inches, sufficient to cancel the deficiencies of the three earlier periods.

Table XIX (b).—*General Monthly and Annual Averages of Rainfall*, 1881-1915.

	England	Wales	Isle of Man	England and Wales	Scotland	Ireland	British Isles
	in.	in.	in.	in.	in.	in.	in.
January	2·69	4·72	3·40	2·99	4·90	4·07	3·78
February	2·34	3·94	3·25	2·57	4·18	3·53	3·26
March	2·47	3·82	3·03	2·67	4·05	3·36	3·22
April	1·98	2·96	2·47	2·12	2·99	2·75	2·52
May	2·19	2·95	2·82	2·30	3·01	2·75	2·61
June	2·33	3·05	2·54	2·44	2·83	2·82	2·64
July	2·75	3·60	3·22	2·87	3·78	3·37	3·25
August	3·11	4·71	4·01	3·35	4·51	4·20	3·88
September	2·37	3·51	3·22	2·54	4·00	3·13	3·09
October	3·69	5·63	4·64	3·97	4·90	4·08	4·25
November	3·19	5·25	4·73	3·49	5·29	4·28	4·19
December	3·56	6·00	4·97	3·92	5·88	4·96	4·72
Year	32·67	50·14	42·30	35·23	50·32	43·30	41·41

December was the wettest month of the year, giving over the British Isles generally appreciably more rain that the three months May, June and July together, and nearly ten times that of the driest month February. December was the wettest month in England, Wales and Ireland but in Scotland October was wetter than December. February was the driest month in each country.

At the end of Table XXI the general values are given as percentages of the average. The rainfall exceeded the average over the British Isles as a whole in seven months but the excesses were appreciable only in April, September and December. The total rainfall of December 1934 (160 per cent.) was exceeded since 1870 only in the Decembers of 1876, 1914, 1915 and 1929 with 189, 183, 170 and 180 per cent. respectively. The deficiencies were most marked in February, November, June and July. There have been only two drier Februarys than that of 1934, with 24 per cent., namely those of 1891 and 1932

with 18 and 13 per cent. respectively. The rainfall over Ireland exceeded twice the average in September but the Septembers of both 1924 and 1918 were slightly wetter there.

A few individual stations recorded less in February, 1934, than in any February since before 1870. Amongst these the following may be mentioned :—

	Feb., 1934	Previous smallest amount.	year.
	in.	in.	
Marchmont House, Berwick	·18	·21	1891
Birr Castle, Offaly	·17	·19	1891
Dublin (Fitz William Sq.)	·03	·04	1891

The rainfall recorded during December at certain stations was also remarkable. At Chilgrove, near Chichester, where the record commenced in 1834, the total of 11·90 inches for December, 1934, exceeded by more than an inch the previous highest total for any month, and was as much as 33 per cent. of the total for the whole year. At Holne the total of 25·03 inches was the largest recorded in any month during records covering 59 years. Certain other stations recorded more in December, 1934, than in any December since before 1870 :—

	Dec., 1934	Previous largest amount.	year.
	in.	in.	
Holne, Devonshire	25·03	21·94	1876
St. Austell (Trevarna), Cornwall ..	13·03	12·56	1876
Cardiff (Ely P. Stn.), Glamorgan ..	11·16	8·64	1919
Douglas (Boro' Cemetery), I. of M.	11·31	8·69	1889
Valentia, Co. Kerry	13·60	12·47	1899

Extremes of Monthly Rainfall at Individual Stations.

(*a*) *Monthly Totals.*—More than 30 inches was recorded in December in Snowdonia. The largest actual measurement was 30·80 inches at Snowdon (L. Llydaw Copper M.).

On the other hand the least rainfall was recorded during February, a number of stations in Sussex and Hampshire experiencing no measurable rain on any day during the month. Amongst these the following may be mentioned :—

County.	Station.
Sussex	.. Chichester (Oakwood Ho.).
,, ...	.. Patching Farm.
,, ...	.. Keymer.
Hants.	.. Brighstone (Pitt Place).
,, ...	.. Cowes W.W. (Broadfields).
,, ...	.. Portsmouth (Eastney).
,, ...	.. Lee-on-Solent (Edinburgh Ho. Sch.).
,, ...	.. Hook-cum-Warsash.
,, ...	.. Fareham (Fareham Ho.).
,, ...	.. Swainshill.

(*b*) *Monthly Percentage Totals.* Monthly totals of more than three times the average were recorded in April at Aberdeen (King's College) and Montrose (Sunnyside Asylum) and in December at Ovington Rectory, Hants. At Montrose the total was 6·32 inches and there was precipitation on 20 days, the most striking period being one of 13 consecutive days from the 3rd to 15th during which 5·81 inches were recorded. At Aberdeen the total fall was 6·15 inches and was largely due to the heavy rains over the same period. In December the rainfall at Ovington Rectory amounted to 12·14 inches with rain falling on 29 days during the month. Other large percentage values for December were 296 at Heathfield (Barklye), Sussex, and 280 at both Compton (Compton Ho.) and Patching Farm in Sussex.

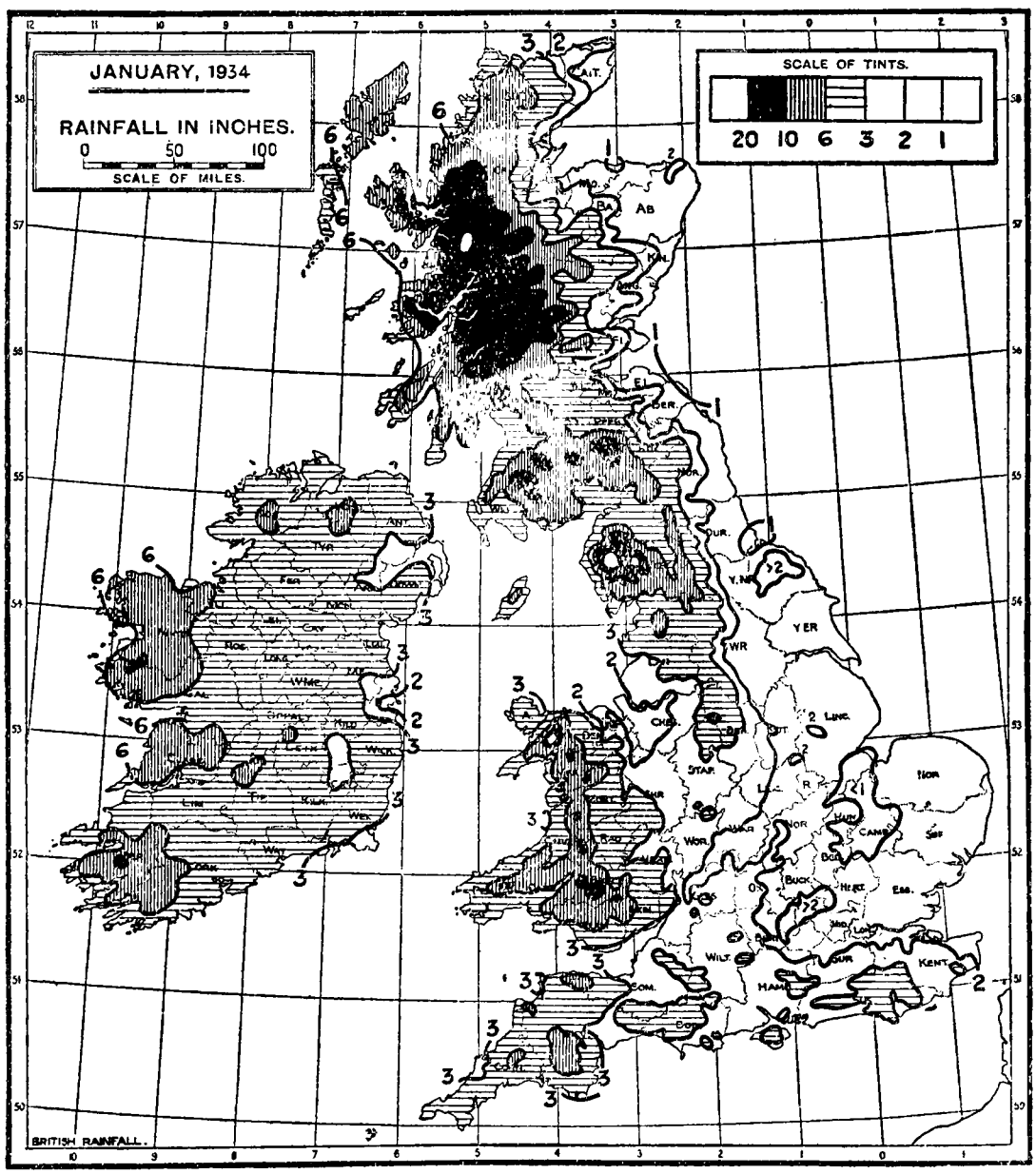
The smallest percentage values occurred in February, a number of stations, as set out above, recording no measurable rain during the month. Other small percentage values were 1 at Weymouth (Westham Ho.) and 2 at Fordingbridge (Oaklands), Ventnor (Royal Nat. Hosp.), Compton (Compton Ho.) and Eastbourne (Wilmington Sq.). At Weymouth the total rainfall for the month was only ·03 inch and occurred on one day only.

The Rainfall and Weather of the Individual Months.

*** Maps showing the distribution of mean pressure and the movements of the centres of depressions for each month are published in the *Monthly Weather Report.*

In the following pages maps are given showing the distribution of the actual rainfall in each month, and of the percentage monthly values, together with a short description of the weather of each month. Further details are given in the *Monthly Weather Report* and in the *Meteorological Magazine.*

January.—The mean pressure for the month was above the average in the south and below the average in the north, due to the persistence of a belt of high pressure extending from Spain to Central Europe. The mean pressure at 7 a.m. varied from 4 mb. in excess of the average in the south to 4 mb. below the average in the north. Disturbances travelled eastward across northern districts giving

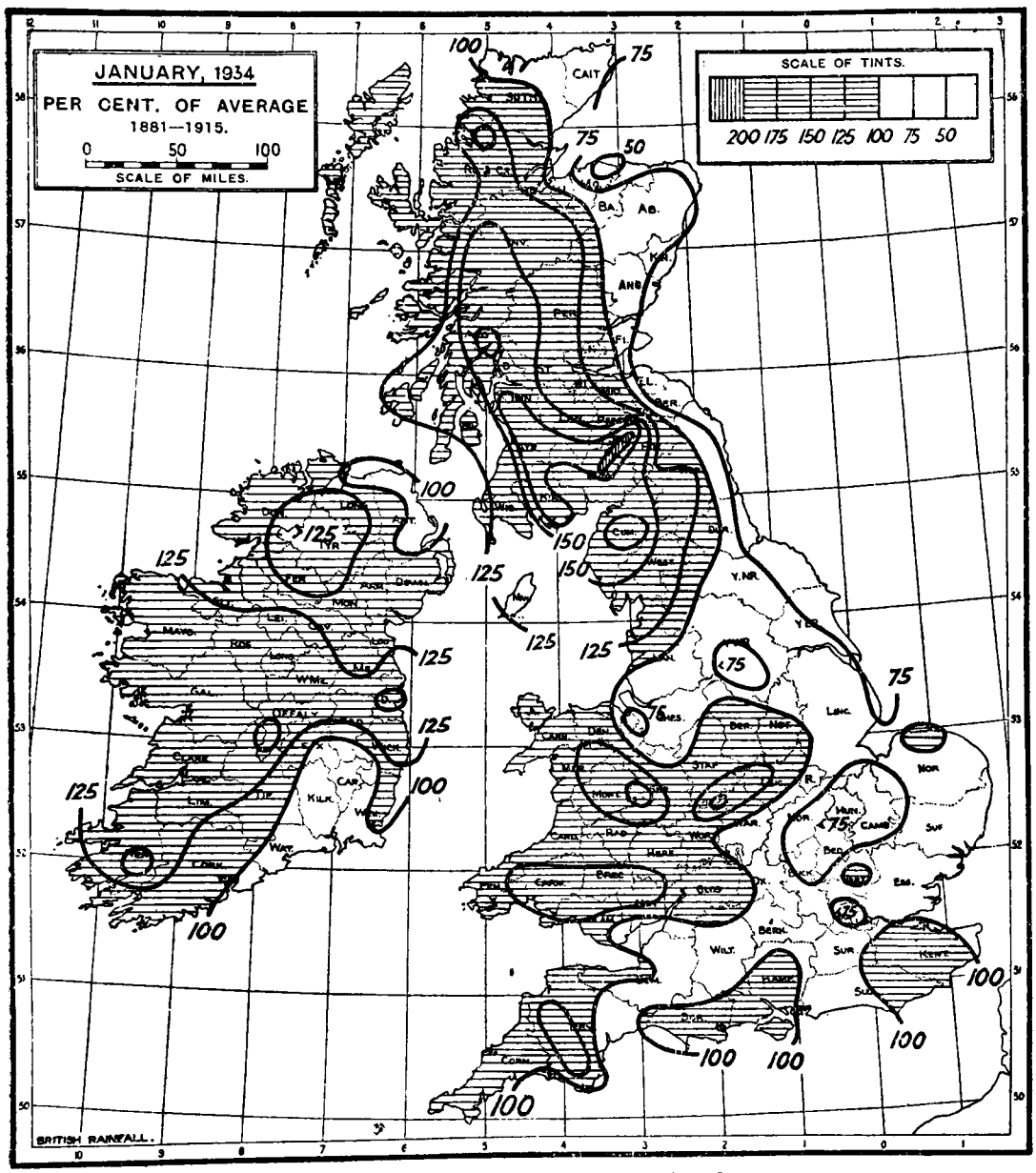


Rainfall, January, 1934.

frequent rain and mild conditions with bright intervals in Scotland and Ireland, accompanied in many places by local thunderstorms, particularly from the 4th to 13th and on the 22nd and 23rd. In southern districts conditions were more settled generally, but dull and cooler.

The rainfall in inches varied from less than 1 inch over Cambridge-

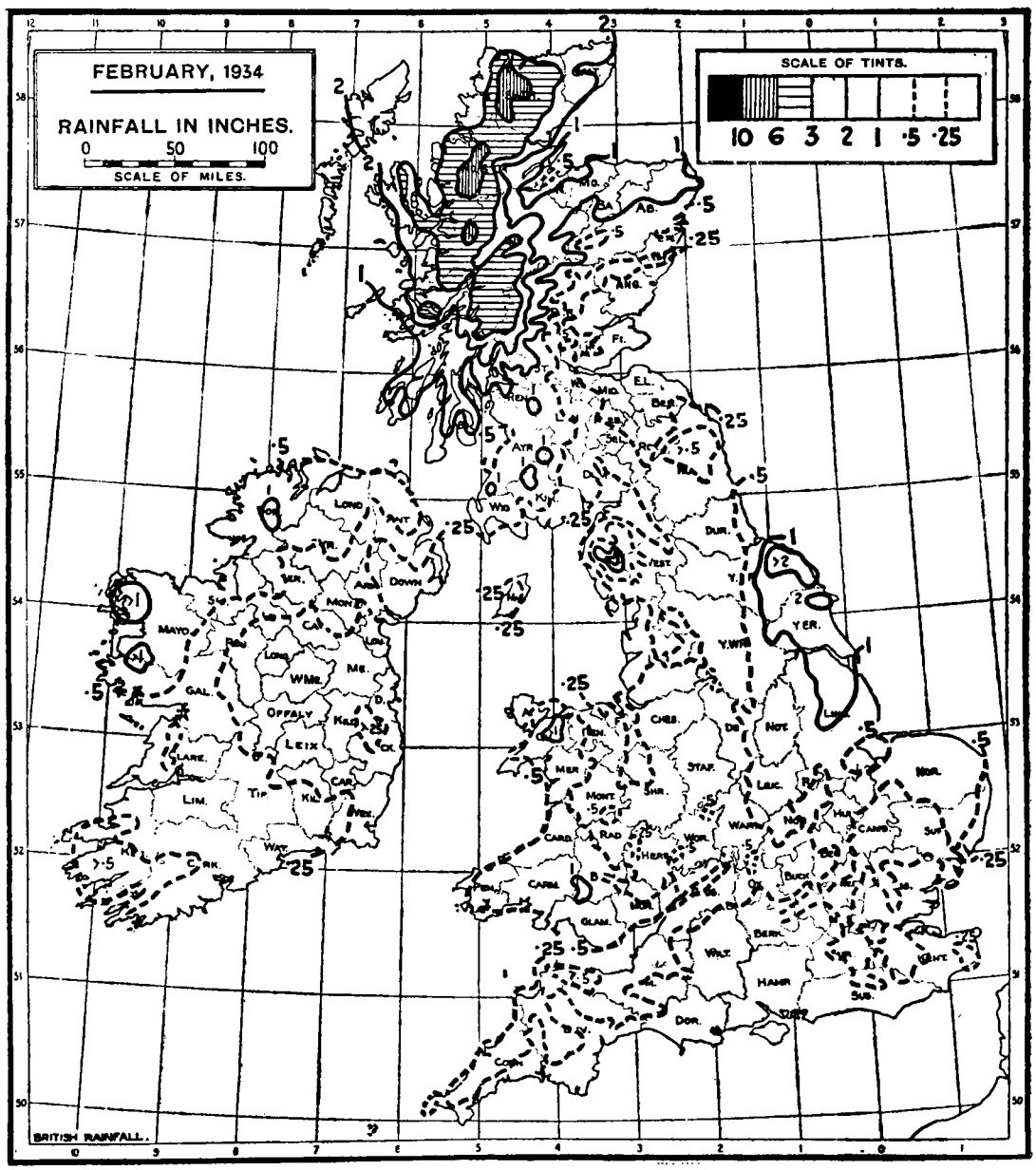
shire and along the east coast of Scotland and northern England, to over 20 inches in the north of Inverness-shire, in Snowdonia and the English Lake District. The percentage map shows that less than the average rainfall was experienced over the greater part of the eastern half of Great Britain, in south-east Ireland and Antrim, less than half the average occurring along the Moray coast. More than 150 per



Rainfall, January, 1934, as per cent. of average.

cent. occurred in parts of Shropshire and Warwick, the English Lake District and the western counties of Scotland. In Ireland more than 150 per cent. of the average was confined to small areas in Co. Kerry, Offally and Dublin. Over a small area in Dumfries and Selkirk more than 200 per cent. was recorded, mainly due to the heavy rain during the first eleven days of the month.

February.—The month was sunny and exceptionally dry, mild in the north but rather cold in southern districts. Pressure was considerably above the average over the country generally, being as much as 20 mb. in excess over Ireland, due to the persistence of an anticyclone off south-west Ireland until the 24th. A depression to the north-east of the British Isles, with a trough extending to Ireland,



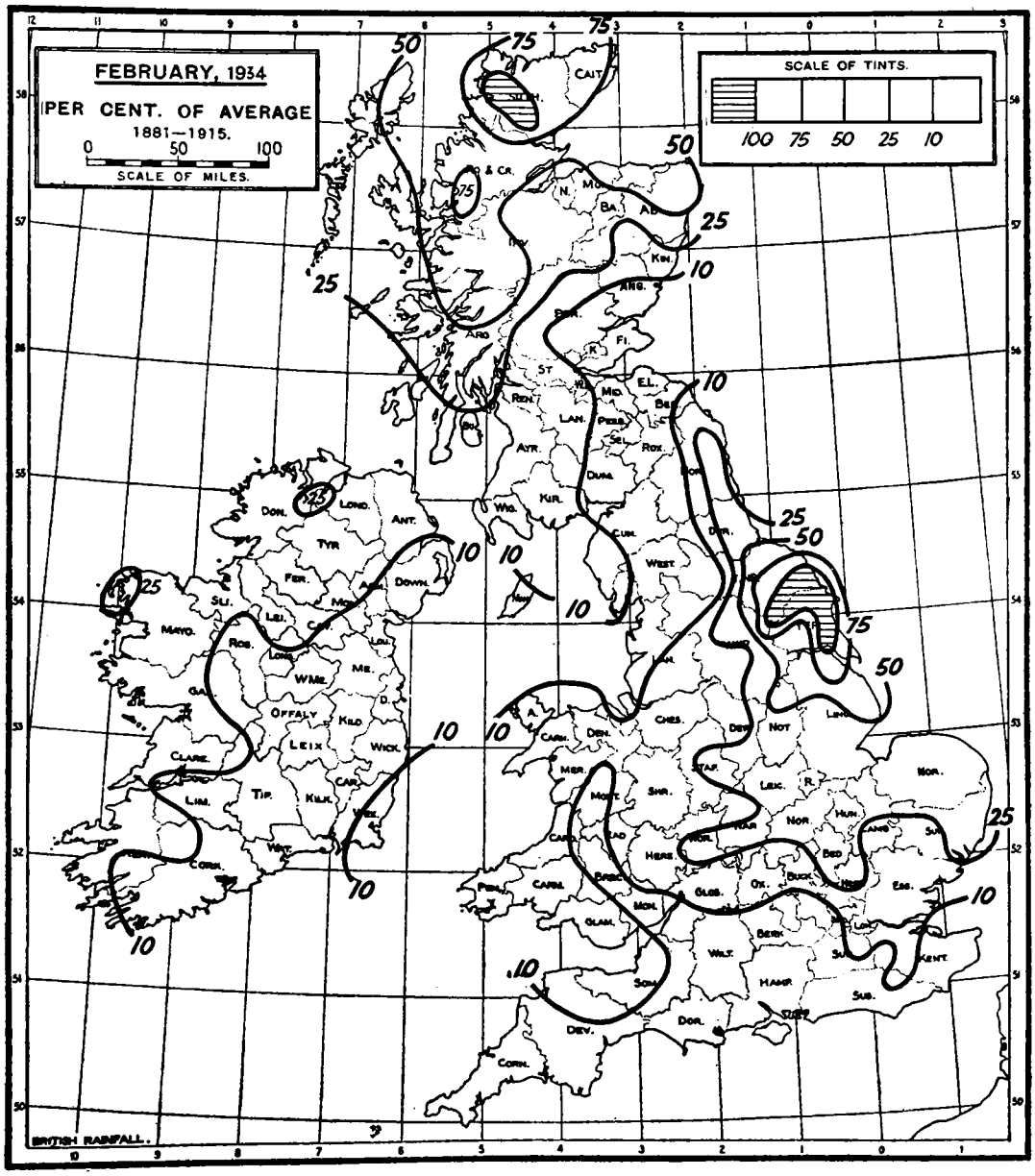
Rainfall, February, 1934.

subsequently caused some rain in most districts. A current of Polar air behind the system brought cold northerly winds accompanied by sleet and snow on the 26th. Snow lay to a depth of 5 inches at York and Castleton on the 28th.

Less than ·5 inch of rain was reported from the greater part of the British Isles, amounts in excess of 1 inch being confined to north-west

Ireland, the Yorkshire coast, north-west Scotland and small areas in Wales and the English Lake District. The greatest rainfall occurred in the extreme north-west of Scotland where falls of more than 6 inches were reported.

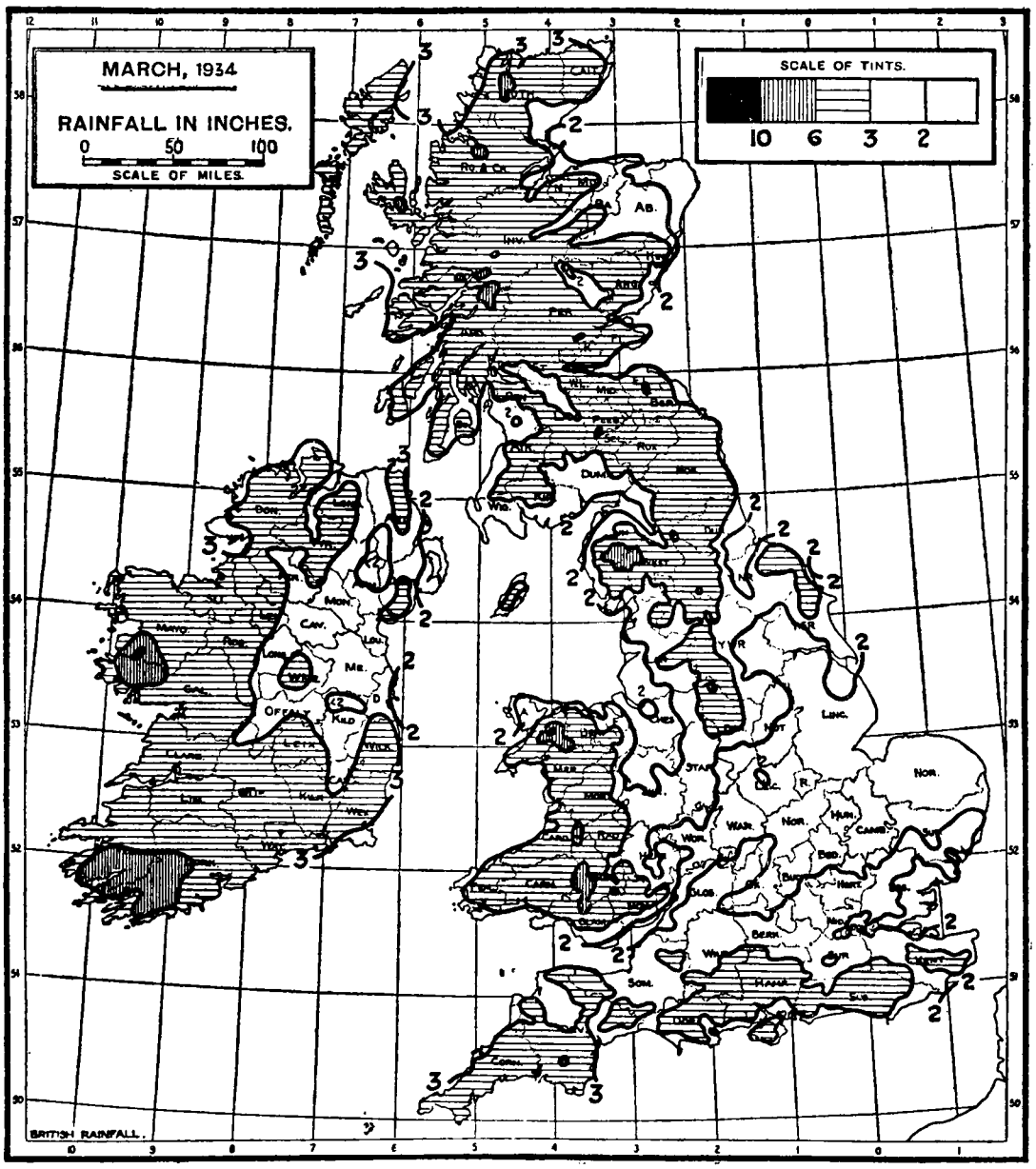
The rainfall for the British Isles as a whole was only 24 per cent. of the average and there have been only two occasions of smaller per-



Rainfall, February, 1934, as per cent. of average.

centages in February since before 1870, namely in 1891 and 1932. Less than 10 per cent. of the average was recorded along the south coast of England, inland in Wales, and in a belt stretching from south Ireland to south-east Scotland. More than 100 per cent. was recorded only in the Orkneys, Sutherland and parts of East and North Yorkshire.

March.—The month was generally unsettled and rather cold, with sunshine below the average in England, though well above in northern Scotland, an excess of as much as 60 hours being reported from Deerness (Orkney). Pressure was everywhere below the average particularly in the west. For the first seven days the weather was influenced by the passage of secondaries to a depression over Ireland;



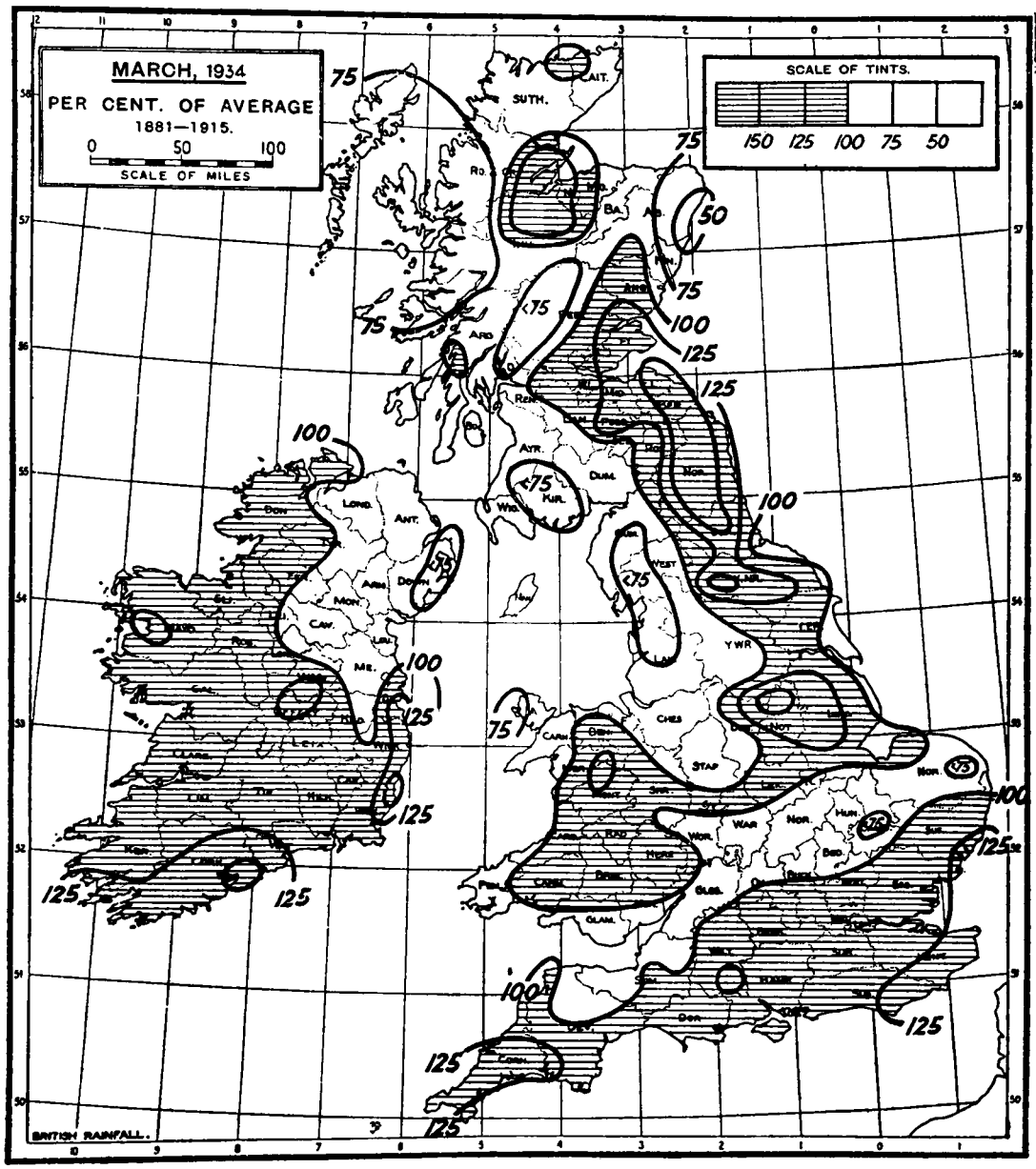
Rainfall, March, 1934.

thereafter, the track of the depressions shifted south and passed directly over the British Isles. After the 21st anti-cyclones to the north of the Azores and subsequently over Scandinavia extended their influence over the country.

The rainfall in inches varied from less than 2 inches in midland and eastern districts of England and Ireland to just over 10 inches in

Snowdonia and Co. Mayo, the wettest period occurring mainly from the 11th to 17th. Snow occurred frequently up to 22nd, especially in northern districts, snow lying at Balmoral from the 10th to 24th, and lying to a depth of 12 inches at Dalwhinnie on the 17th.

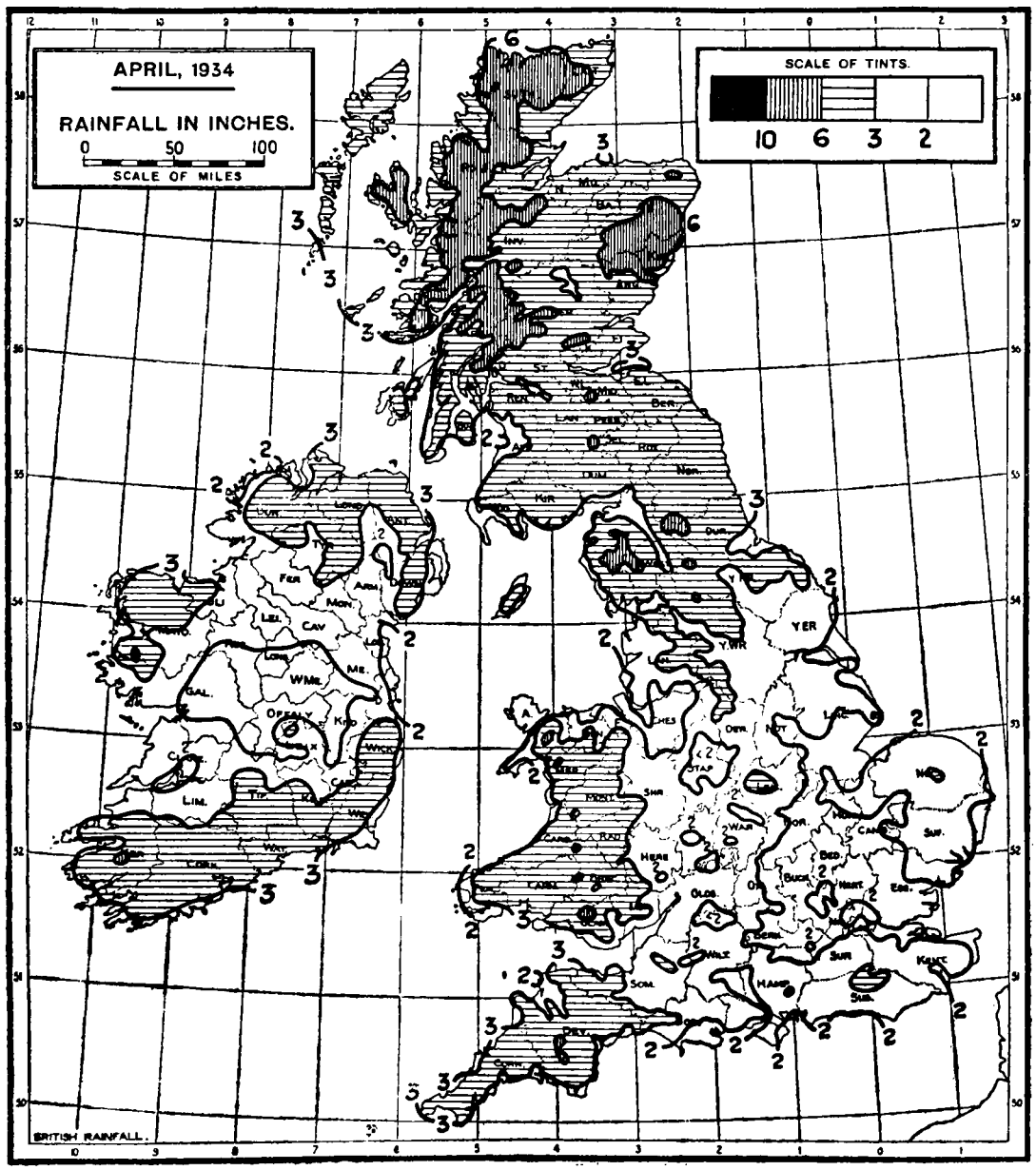
The percentage map shows that, although the percentage of the average for the whole country was 108, less than the average occurred



Rainfall, March, 1934, as per cent. of average.

in the western half of Scotland, north-west England, west of Wales, north-east Ireland and in a belt across the Midlands from the Bristol Channel to the Wash. More than 150 per cent. of the average was recorded locally round the Moray Firth, along the coast of south-east Scotland and northern England, in Nottingham, and in small areas in southern Ireland.

April.—The month was generally dull and unsettled. During the early part of the month pressure was high to the north and low to the south of the British Isles, north-easterly winds prevailed with low temperatures and accompanied by sleet and snow. On the 11th a depression travelled north over the country causing widespread heavy rain. Subsequently pressure became low on the Atlantic, giving



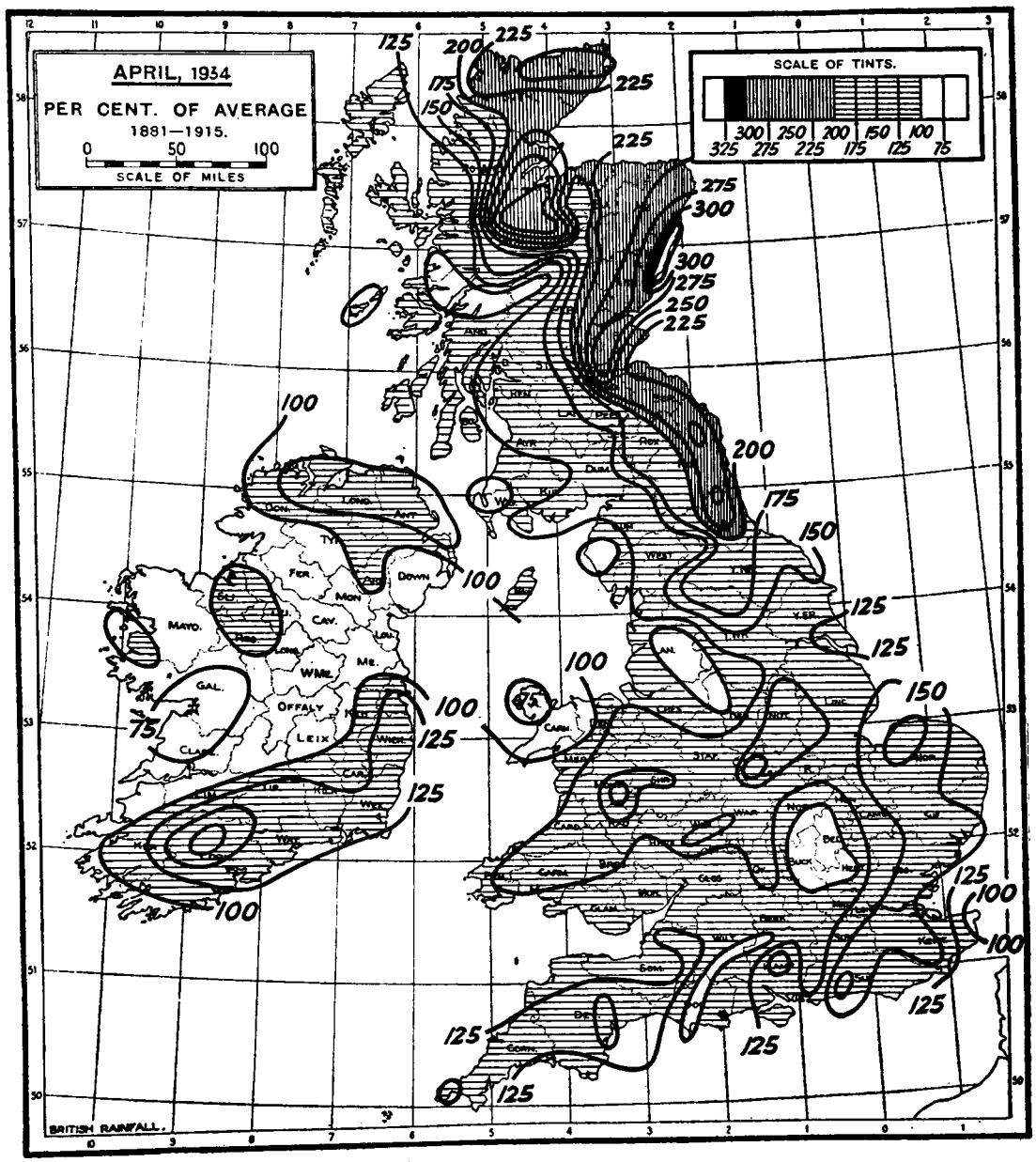
Rainfall, April, 1934.

southerly winds and abnormally warm weather. The temperature reached 75° F. locally in the south-east, the highest recorded being 79° F. at Cambridge on the 15th. From 18th to 28th depressions traversed the country and thunderstorms were frequent.

The rainfall varied from less than 2 inches in the south Midlands, the Thames Estuary and central Ireland, to over 6 inches in north-

west Scotland, the English Lake District, and small scattered areas in western Ireland, central Wales and on Dartmoor. The largest total was recorded at Loch More (Achfary), *viz.*, 11·17 inches, of which 3·44 inches fell on the 7th.

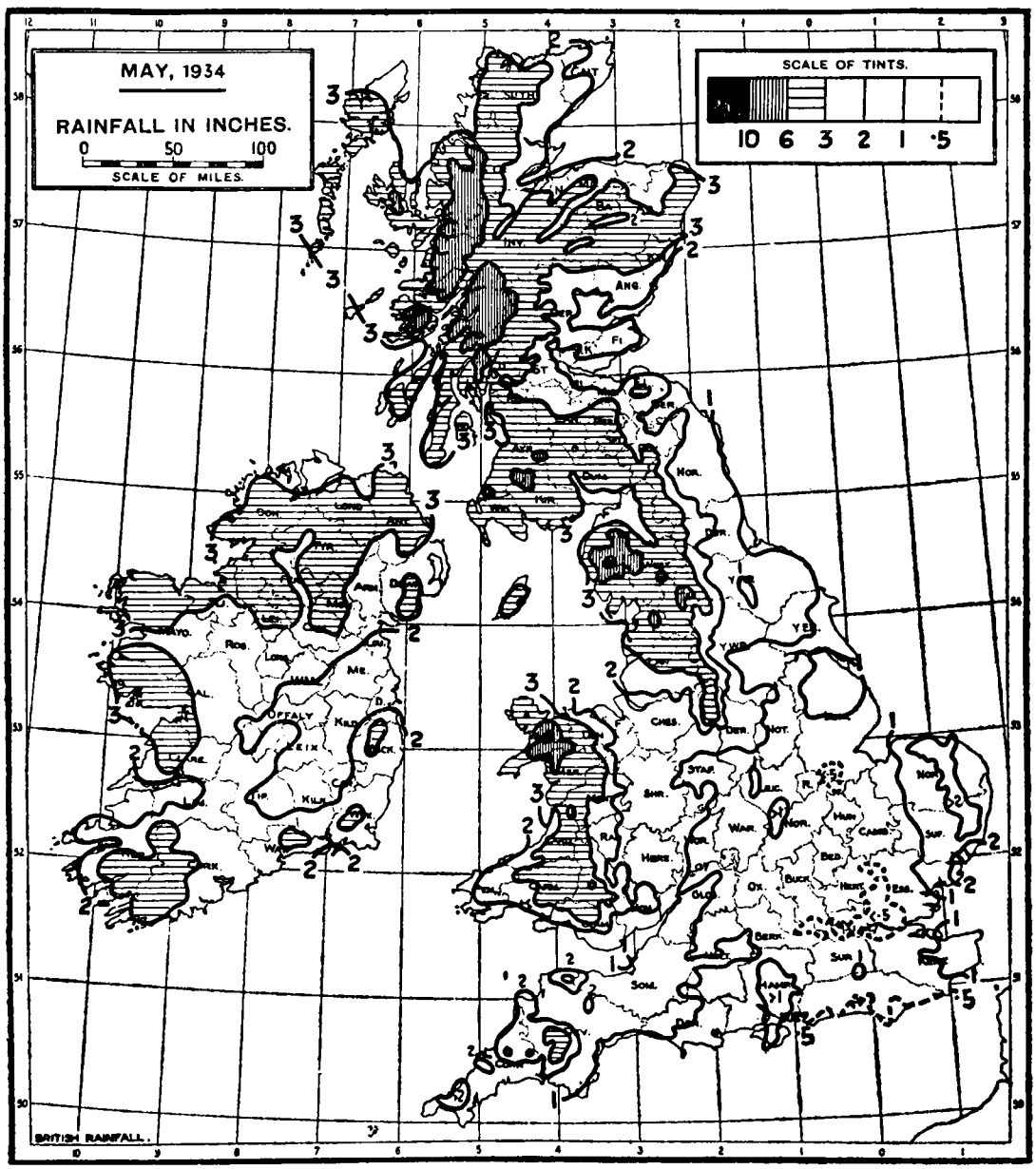
The most striking feature of the percentage map is the large excess in a strip extending along the east coast of Scotland from



Rainfall, April, 1934, as per cent. of average.

Sutherland to Durham, over three times the average being recorded at Aberdeen and Montrose. The rainfall was less than the average over a belt across central Ireland and also over small areas in western Scotland, the north-west of Wales and of England, in the southern Midlands and in parts of Dorset and Wiltshire.

May.—Conditions throughout the month were in general unsettled in northern districts, while in the southern half of the kingdom conditions were mainly influenced by an anticyclone to the south. Thunderstorms occurred in south-east England from the 2nd to 4th. From the 12th to 18th, cold unsettled weather prevailed over the country generally, with some sleet or snow in the north. Anticyclonic

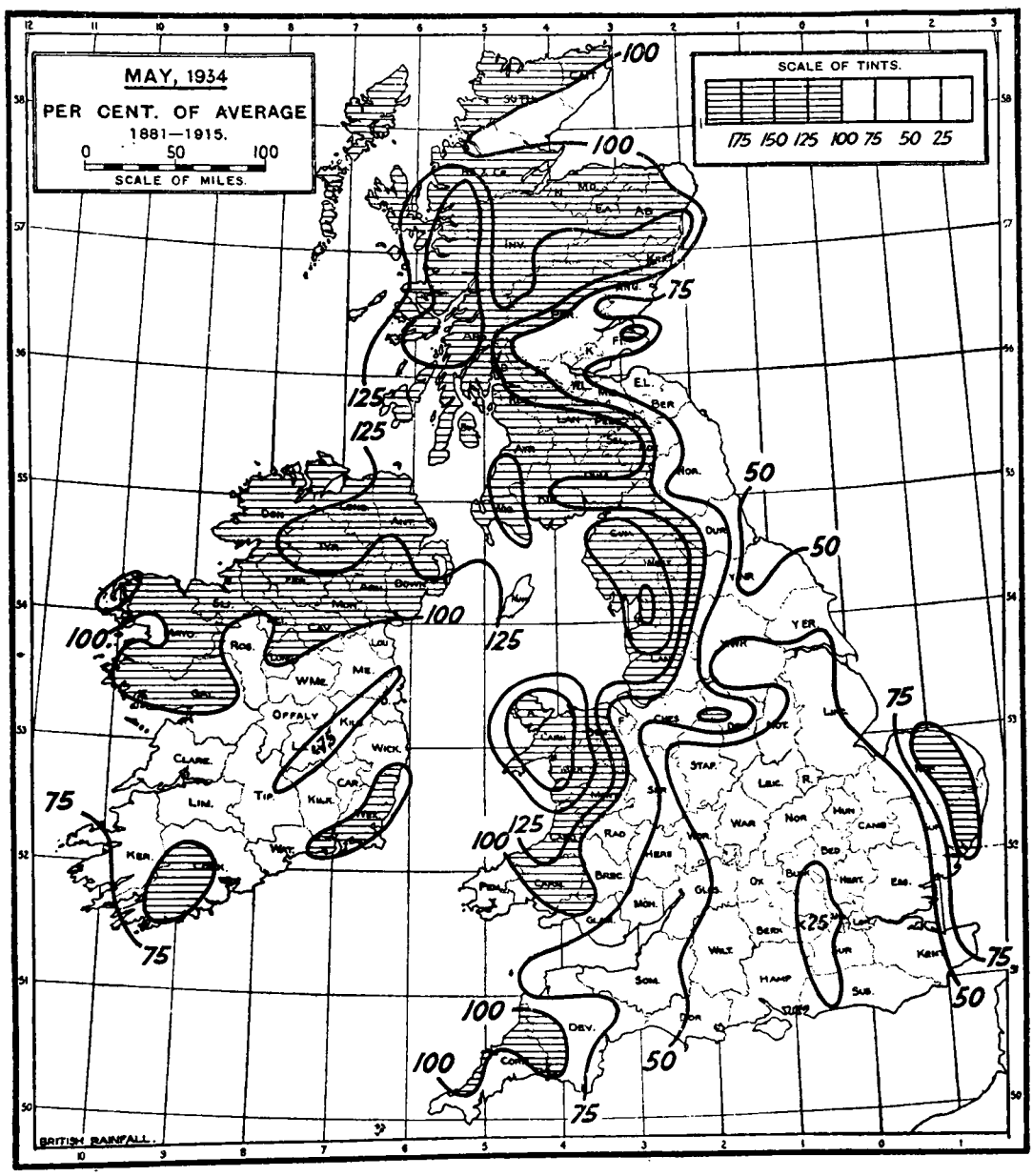


Rainfall, May, 1934.

conditions were re-established subsequently in the south and practically no rain fell there after the 27th.

The total rainfall varied from less than ·5 inch in the Thames valley and along the south-east coast of England to nearly 15 inches in the Isle of Mull. Amounts in excess of 10 inches were confined elsewhere to small areas in Snowdonia and the Lake District.

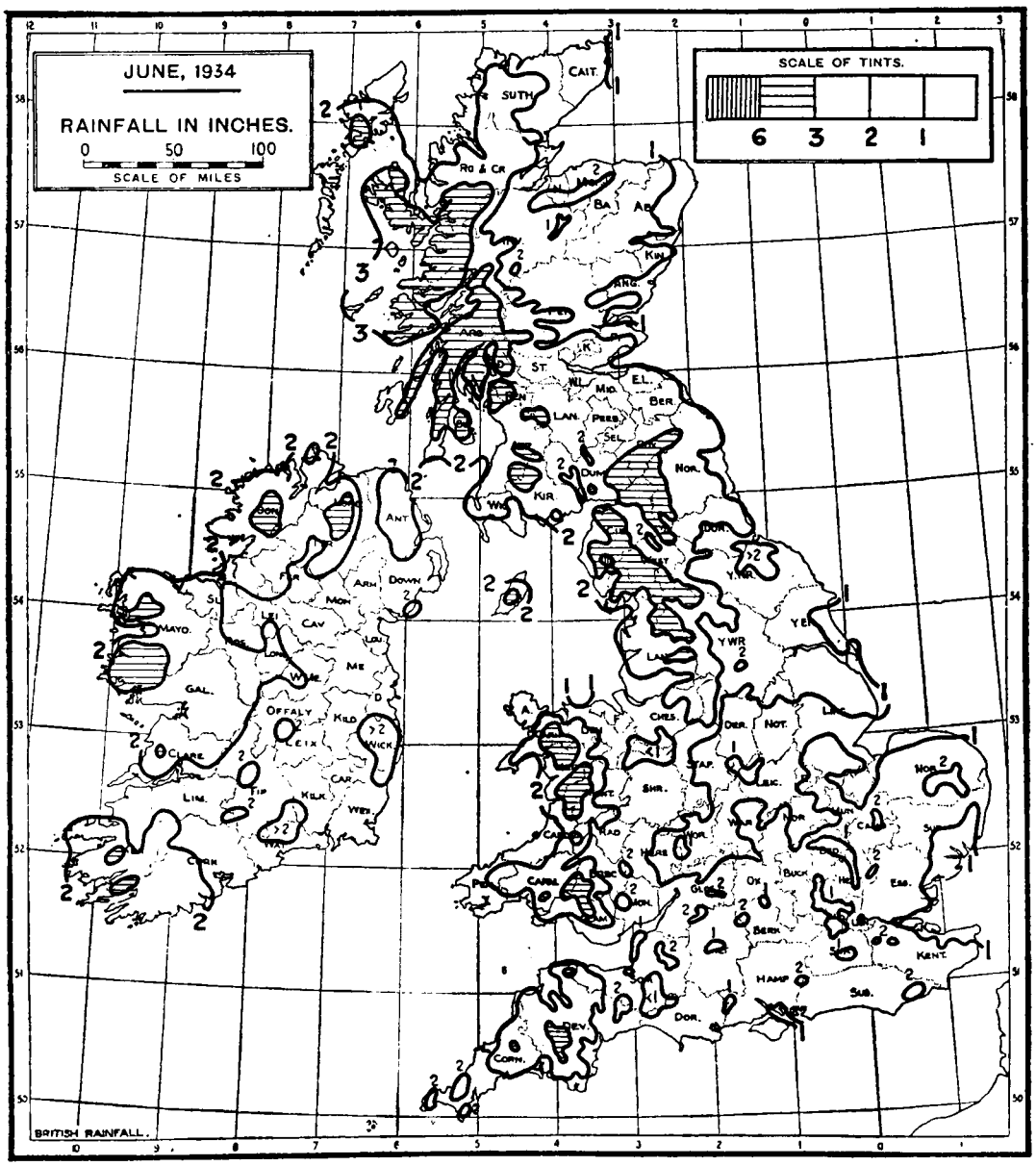
The percentage map shows that amounts in excess of the average occurred in the west and north of Scotland, over most of Wales, the north-west of England and north of Ireland, and over small areas in East Anglia, the extreme south-west of England and in southern Ireland.



Rainfall, May, 1934, as per cent. of average.

The greatest excesses occurred in Carnarvon, Anglesey, and North Lancashire, as much as 197 per cent. of the average being recorded at Holyhead. On the other hand less than half the average occurred in the Midlands and southern England, with less than 25 per cent. over a narrow strip from Bedfordshire to the Sussex coast.

June.—The weather of the month was mainly dry, with temperatures generally above the average. Temperatures in excess of 80° F. occurred at many places from the 10th to 12th, 16th to 18th and on the 30th, while 91° F. was recorded at Greenwich on the 17th. Until the 23rd, conditions in the south were dominated by an anticyclone to the west, which travelled slowly eastward, while depressions passed



Rainfall, June, 1934.

along our west and north-west coasts. The drought was broken in the south on the 24th by a complex depression speading north from the Bay of Biscay, while another travelled east from Iceland. Widespread thunderstorms with heavy rain occurred on the 25th and 28th, the most outstanding intense fall being that of 1·19 inches in 22 minutes at Rickmansworth on the 25th.

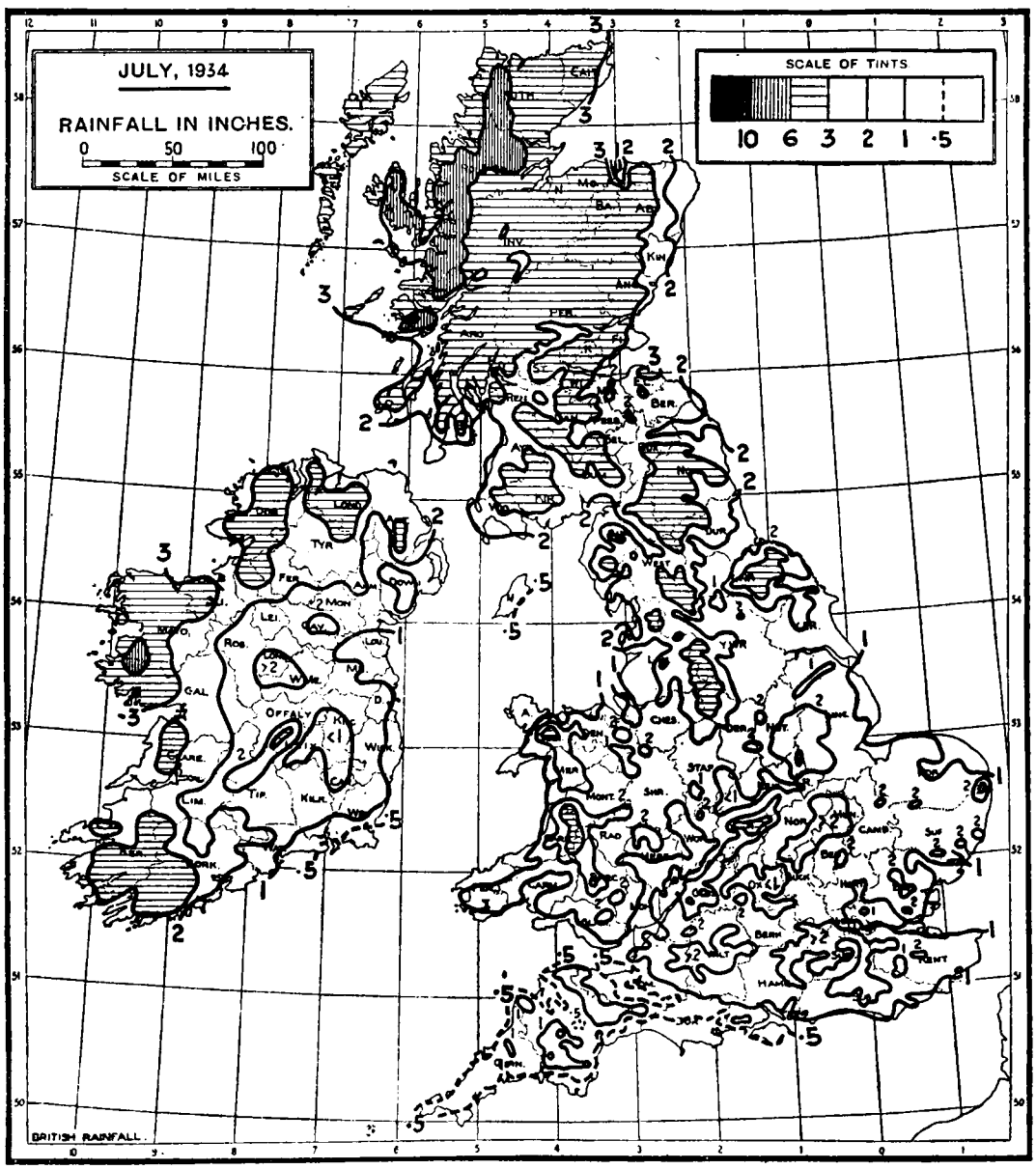
The variation in the rainfall was from less than one inch along the north-east coast of Scotland, the Midlands, the neighbourhood of the Wash, the Thames Estuary and scattered areas in southern England, to about 8 inches in the English Lake District and Snowdonia. There was less than 3 inches over by far the greater part of Great Britain.



Rainfall, June, 1934, as per cent. of average.

The most striking feature of the percentage map is the large part of the country with less than the average rainfall. Over the Midland counties of England less than half the average was recorded. The smallest value occurred at Derby, *viz.*, 21 per cent., while the greatest was 137 at Arisaig in Inverness.

July.—The weather of the month was notably warm and sunny. Anticyclonic conditions, accompanied by high temperatures, prevailed until the 10th, but subsequently there were numerous local thunderstorms (the more important falls are dealt with in Sections 6 and 7). On the 25th, anticyclonic conditions were resumed in the south, but with the approach of a large depression from the Atlantic, thundery



Rainfall, July, 1934.

conditions prevailed from the 29th to 31st. At Southport, the mean monthly temperature was higher than that for any month in the last 63 years, while at Oxford, temperatures reached or exceeded 70° F. on every day except one. The sunshine totals in many places were the greatest for many years. At Kew Observatory, the aggregate

of 131 hours for the first 10 days of the month, was the largest recorded in any ten days since records began in 1880.

The rainfall in inches varied from less than ·5 inch in the south-west of England and south-east of Ireland to over 13·5 inches in the Isle of Mull.

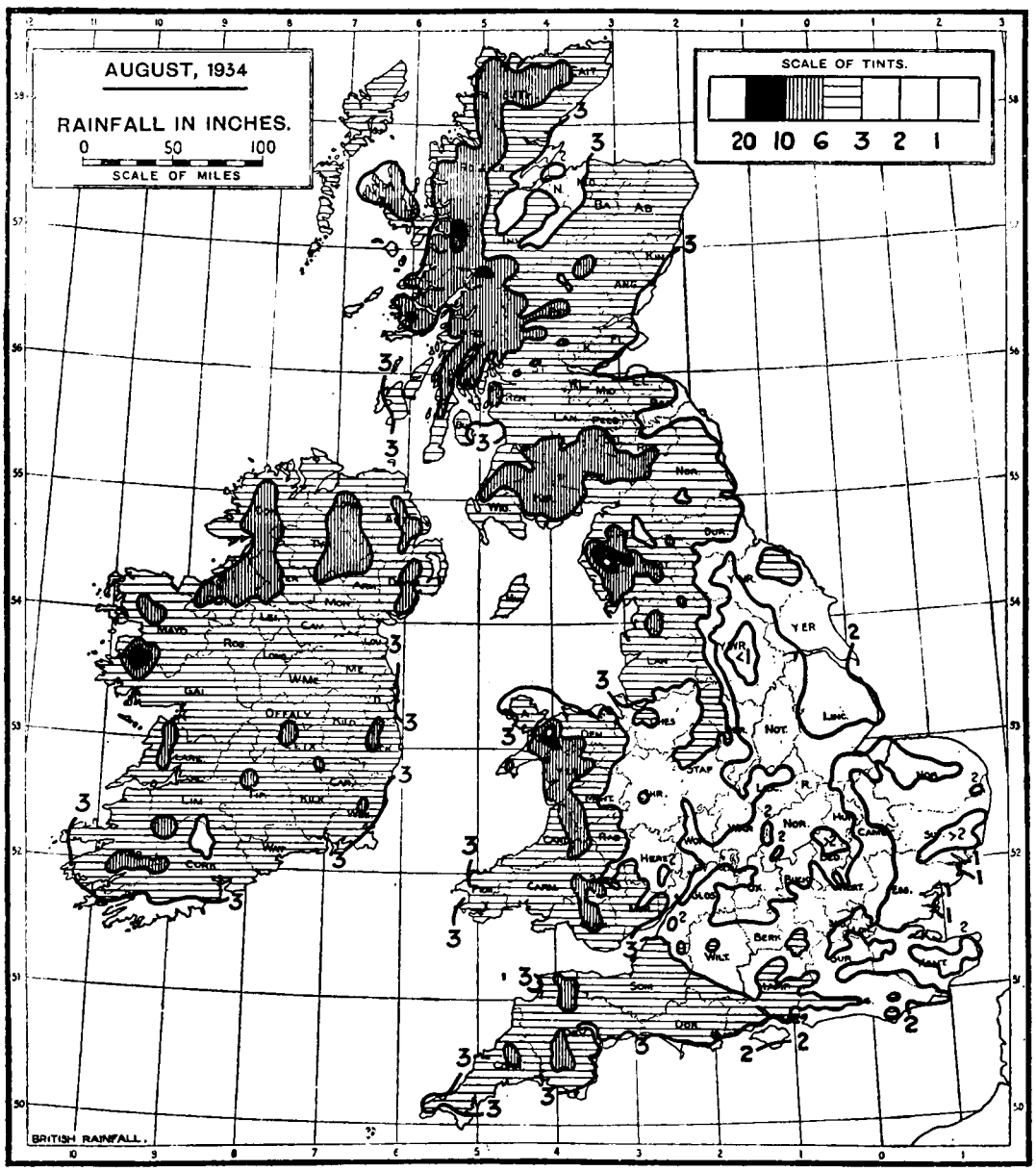
The percentage map shows that more than the average occurred



Rainfall, July, 1934, as per cent. of average.

over much of the northern half of Scotland, the north-west of Ireland and over isolated areas in the eastern half of England. The greatest value was 236 per cent. at Ardross Castle in Ross-shire. Less than 25 per cent. of the average occurred in the south-east of Ireland and along western and southern coasts of Wales and England, the values at Weymouth and Carmarthen being 7 and 9 respectively.

August.—Conditions throughout the month were generally unsettled especially in Scotland and Ireland. Mean temperatures for the month differed little from the average and there were in general few very warm days. Thunderstorms were fairly frequent. With a succession of disturbances traversing the British Isles throughout the month, no settled spells of any great duration were experienced,

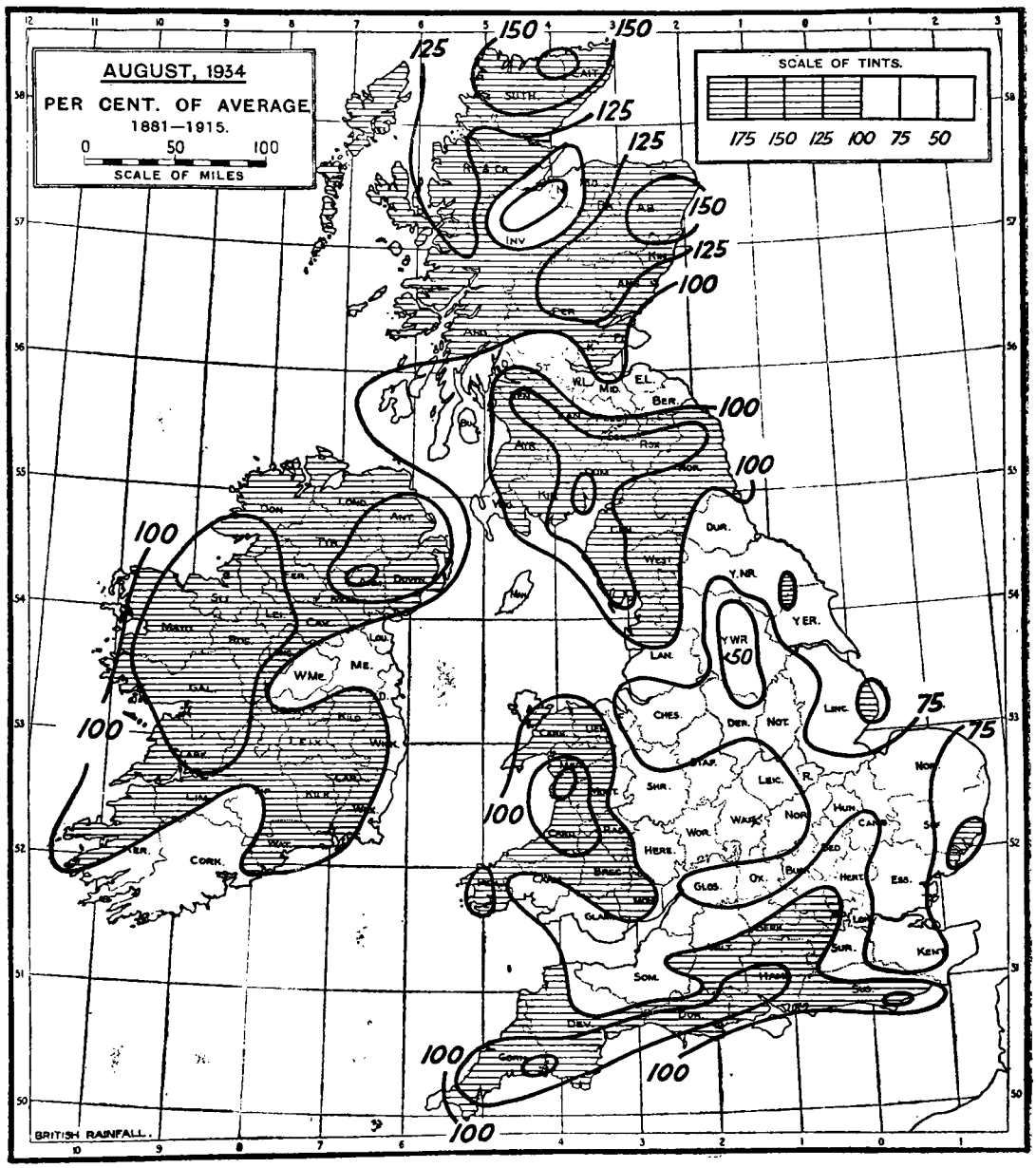


Rainfall, August, 1934.

though bright intervals occurred in England from the 15th to 18th and 24th to 26th. A number of heavy falls occurred in Scotland and Ireland in the early part of the month.

The rainfall in inches varied from less than one inch along the Essex coast and in the West Riding of Yorkshire, to over 20 inches in the English Lake District and Snowdonia, the largest value being

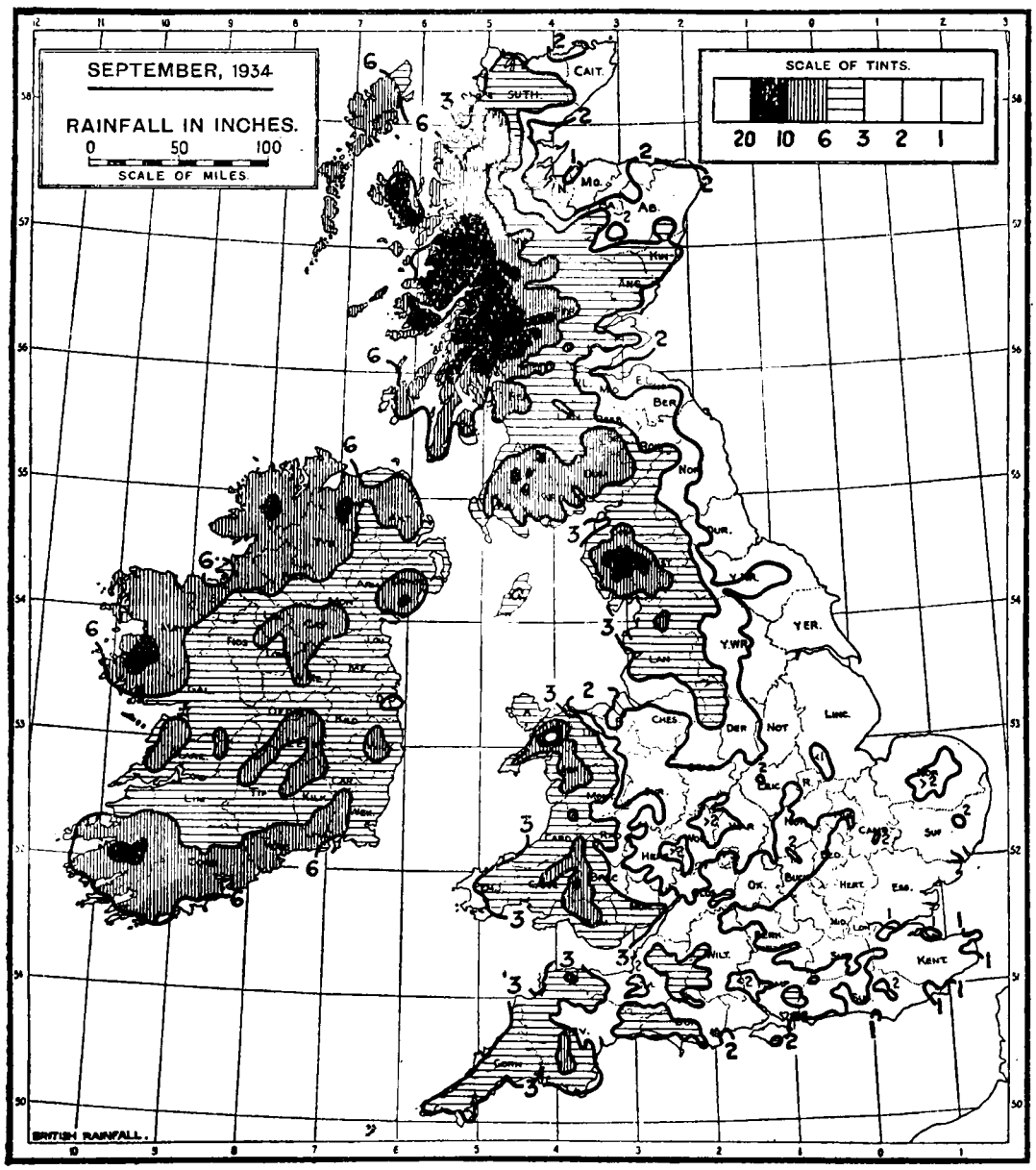
21·90 inches on Snowdon. The percentage map shows that over the greater part of Ireland and Scotland the rainfall was in excess of the average, the largest values being 199 per cent. in the extreme north of Scotland, at Melvich and 174 per cent. in the south at Dumfries. On the other hand there was less than 75 per cent. in the neighbourhood of the Caledonian Canal. Over England



Rainfall, August, 1934, as per cent. of average.

and Wales less than half the average occurred over part of the West Riding of Yorkshire, the value being as low as 28 at Wath-upon-Dearne where the total rainfall was only ·68 inch. Over the greater part of Wales, and over both the extreme northern and southern counties of England as well as in isolated areas along the east coast, the fall was in excess of the average.

September.—The weather of the month was notable for the wet conditions which prevailed, especially in Ireland and in western and central Scotland. In the north of Scotland and along the east coast of Great Britain the weather was, however, generally dry and warm with considerable sunshine. Throughout the month the south-east of the British Isles was mainly under the influence of a large



Rainfall, September, 1934.

continental anticyclone, while depressions from the Atlantic passed north-east across Ireland and to the north-west of Scotland. On the night of the 2nd to 3rd heavy rain occurred in southern districts, associated with the passage of a small secondary disturbance. Mean temperatures were above the average in most districts, readings exceeding 80° F. being recorded in many places in England from the 13th to 15th.

Sunshine was in excess of the average in south-eastern districts.

The map of the rainfall in inches demonstrates the small totals recorded in eastern districts. There was less than one inch along the coasts of Kent and Sussex, in Lincolnshire and round the Moray Firth. The largest total occurred in Snowdonia, where falls in excess of 20 inches were recorded.

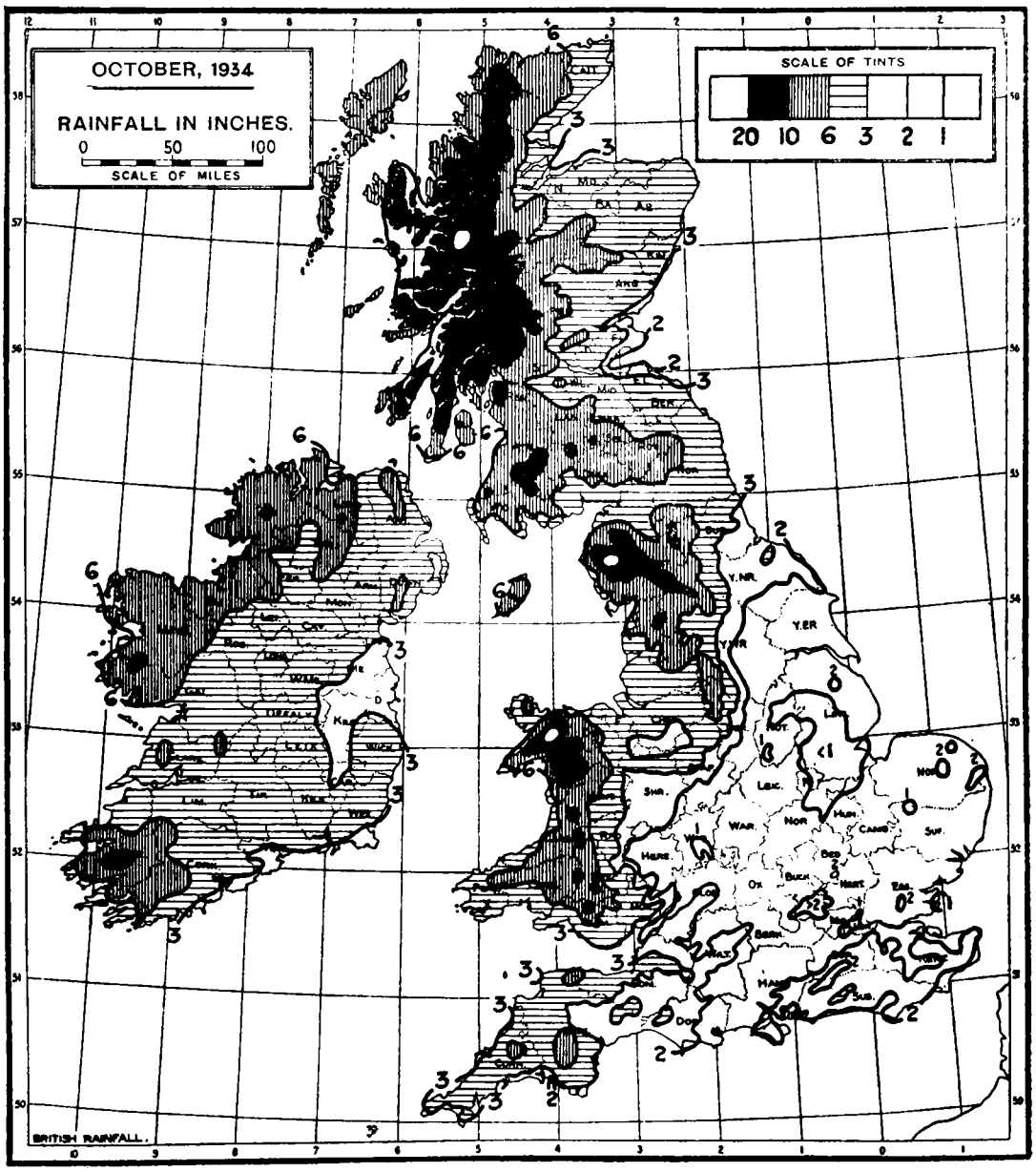


Rainfall, September, 1934, as per cent. of average.

The percentage map shows that more than twice the average occurred over the greater part of Ireland as well as in parts of Dumfries-shire and Perthshire. There was more than 250 per cent. in parts of Cos. Cork, Down and Roscommon. The smallest values occurred in the east of Kent and in Morayshire where there was only half the average amounts.

H

October.—The month was mainly dull and mild apart from two cold spells around the 16th and after the 28th. The mean pressure gradient from the north-west of Scotland to the south-east of England is on the average during October 5 mb., but during October, 1934, it was as much as 15 mb. This marked increase in the pressure gradient is related to the distribution on the percentage map with



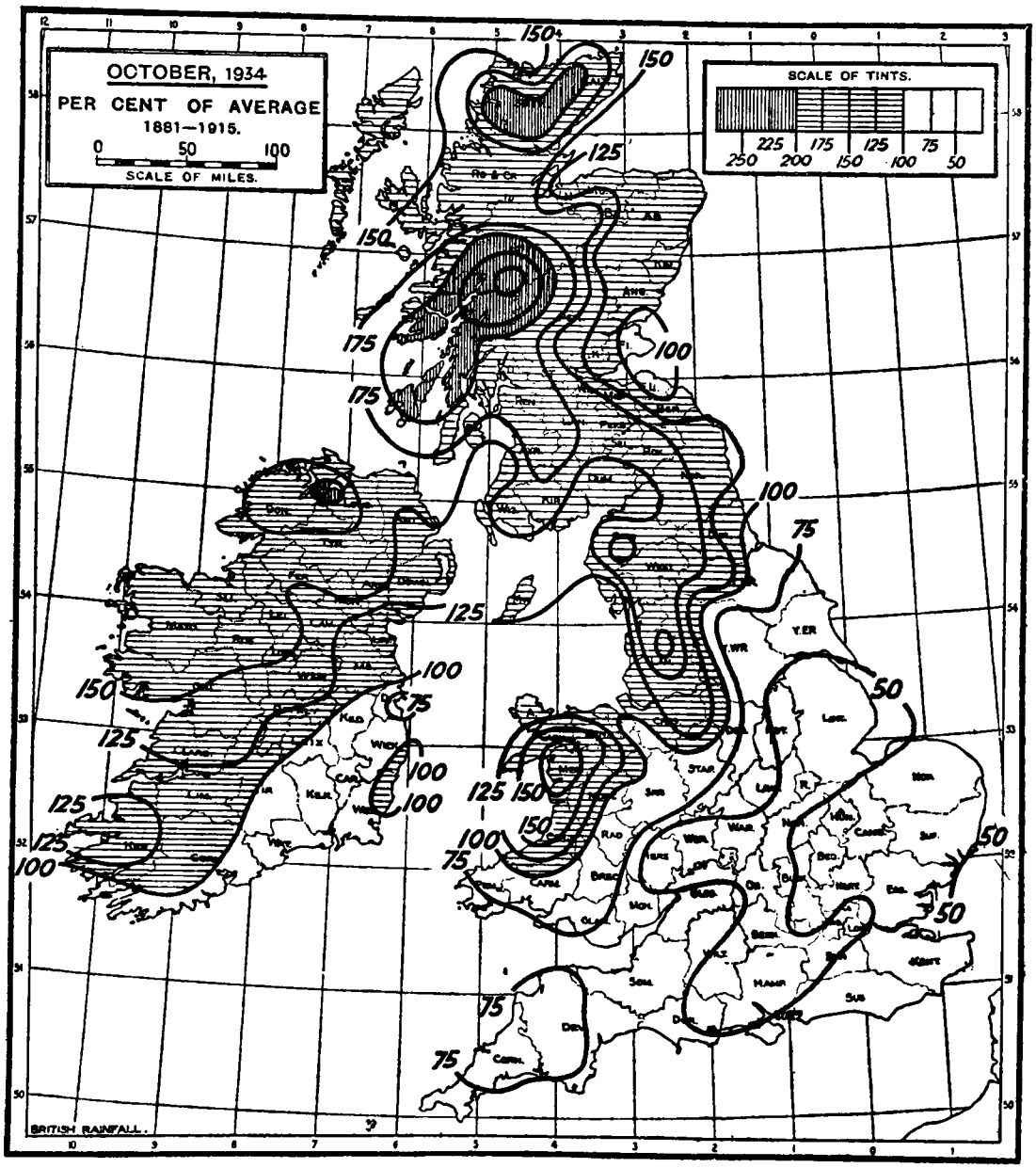
Rainfall, October, 1934.

marked excesses in the west and deficiencies in the east and south-east. A large depression, approaching south-west Ireland on the 24th and moving north-east, was associated with exceptionally heavy rains in Ireland and parts of Scotland on the 24th and 25th and this resulted in considerable flooding. Among the heavy falls on the 24th, 3·03 inches at Valentia is noteworthy as being the greatest fall ever

recorded there in 24 hours (other details being given in Section 7).

Rainfall in inches varied from less than 1 inch in parts of the Midlands and eastern districts of England to over 20 inches in Snowdonia, the English Lake District and in Inverness. The largest total was 27·60 inches recorded on Snowdon.

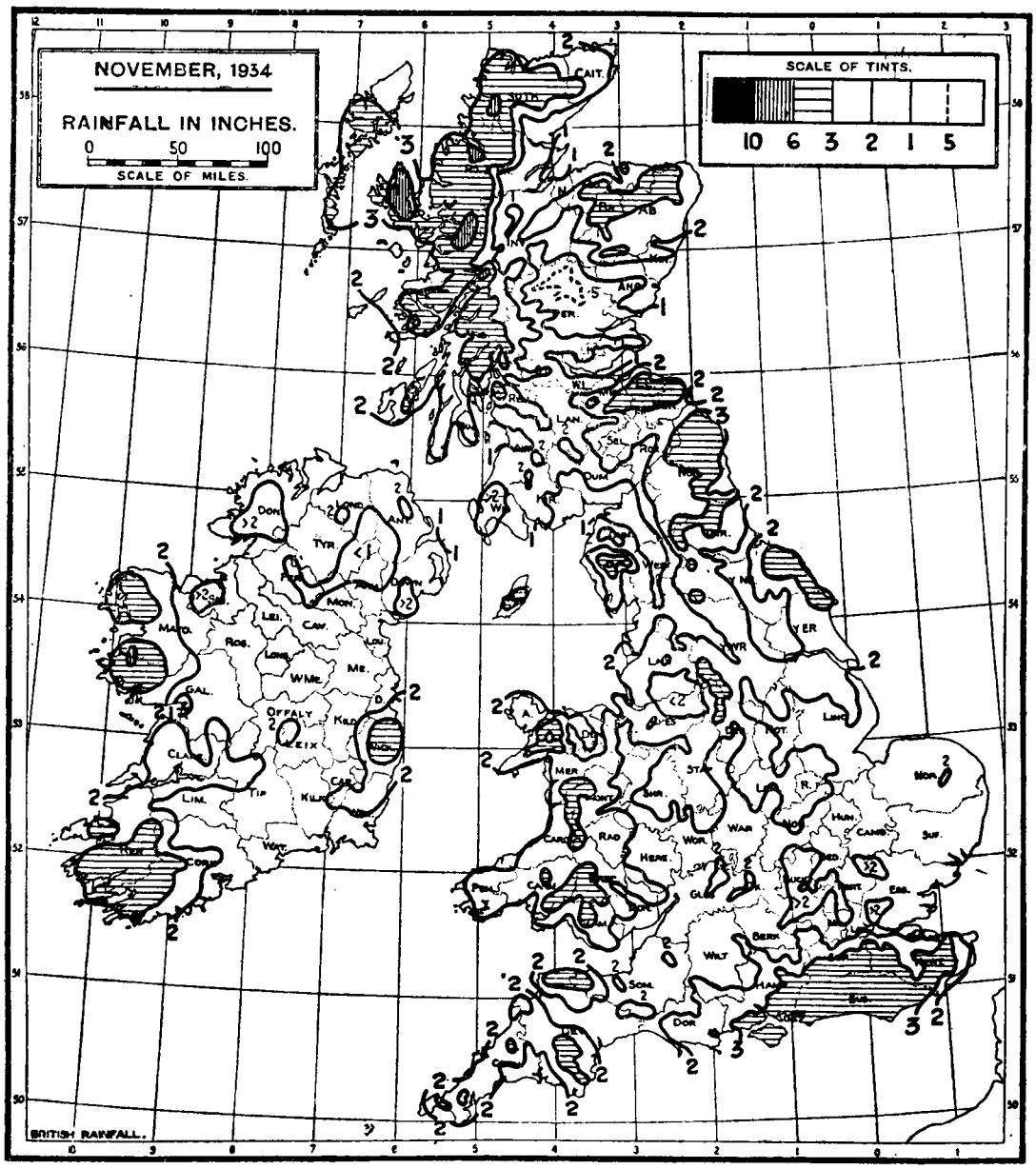
The percentage map shows that round the Firth of Forth, in the



Rainfall, October, 1934, as per cent. of average.

south-east of Ireland, and south-east of a line from Pembroke to Tynemouth, the rainfall was less than the average and that there was only half the average over a large area stretching from the Wash to the Isle of Wight. More than twice the average was recorded over much of the western Highlands of Scotland, in Sutherlandshire and near Londonderry.

November.—The month was generally dry and dull with much fog. During the first half of the month, with pressure low to the east and high to the south-west of the British Isles, disturbances moved south or south-east across the country, accompanied by cold northerly winds, frequent precipitation and snow or sleet in northern districts. Subsequently anticyclonic conditions became established over the



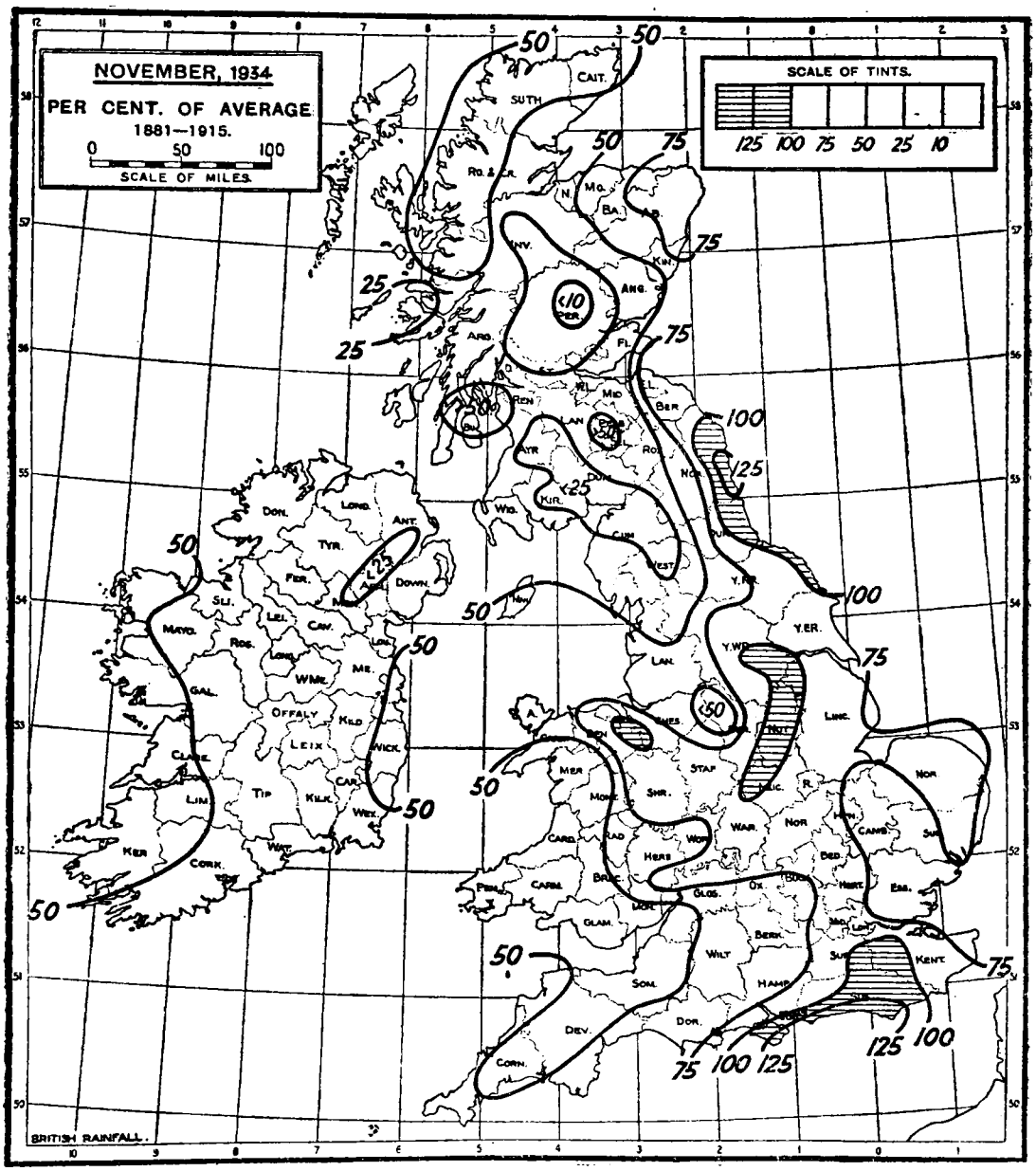
Rainfall, November, 1934.

country and quiet foggy weather was experienced generally except in the far north. Conditions were mild and cloudy from the 22nd to the end of the month. Mean temperatures for the month were generally slightly in excess of the average, although the first eight days were unusually cold. Sunshine was generally deficient over most of England and

Wales. At many stations it was the dullest November on record.

By far the greater part of the British Isles recorded less than 3 inches for the month. The heaviest rainfall, rather more than 6 inches, occurred in small areas in north-west Scotland, Snowdonia, the English Lake District and in Co. Mayo.

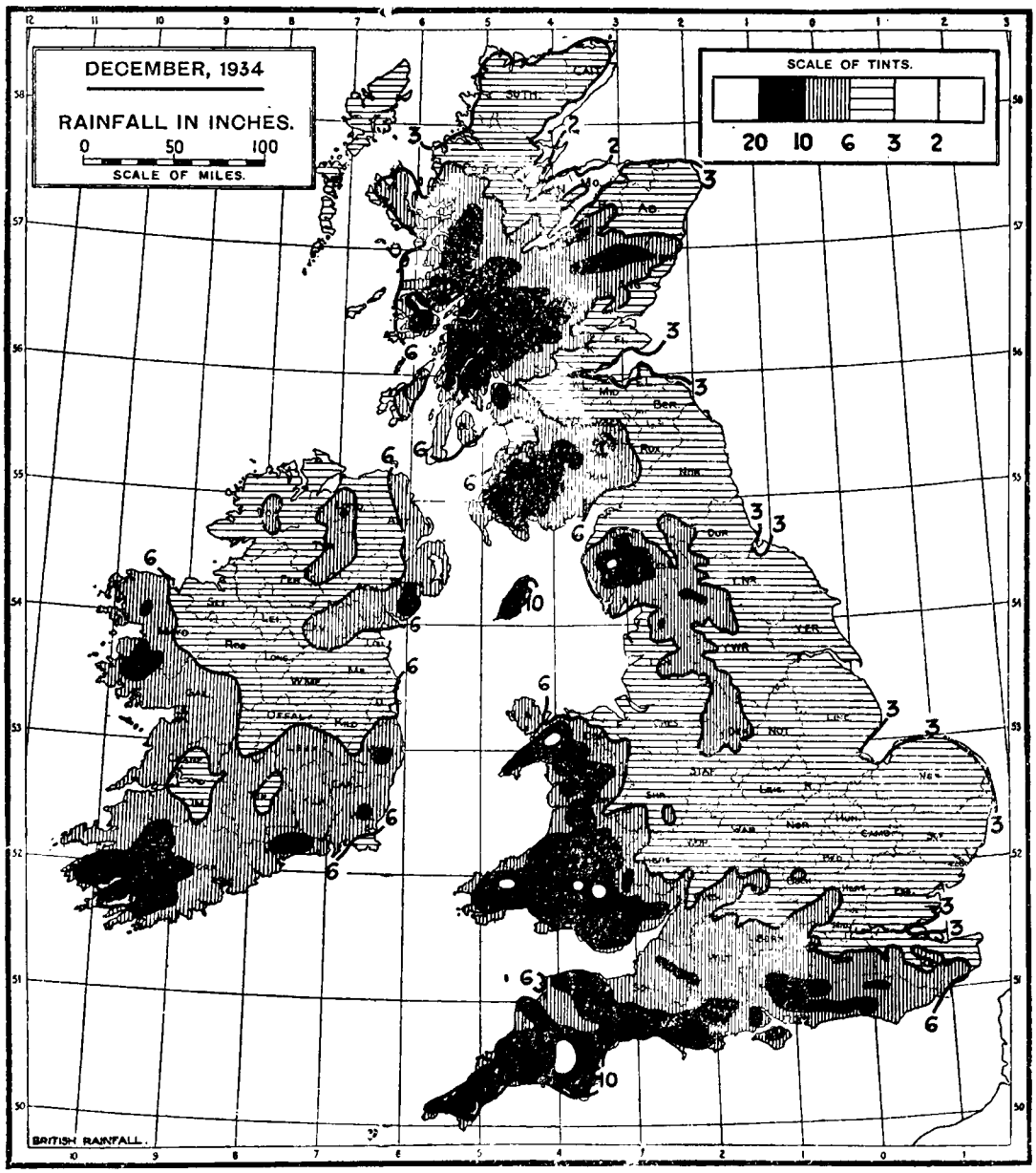
The percentage map shows that less than the average was recorded



Rainfall, November, 1934, as per cent. of average.

over nearly the whole of the British Isles. There was as much as 125 per cent. along part of the coasts of Sussex and Northumberland. Less than half the average was experienced over practically the whole of Ireland, Scotland, Wales and the south-west of England, while in central Perthshire less than 10 per cent. was recorded.

December.—The month was exceptionally mild and very wet, except in the north-west of Scotland. In many places, particularly in the south of England, this was the wettest December on record, the large totals being attributable to the persistent nature of the rain, rather than to any exceptional falls. The mean pressure for the month was less than the average everywhere over the British



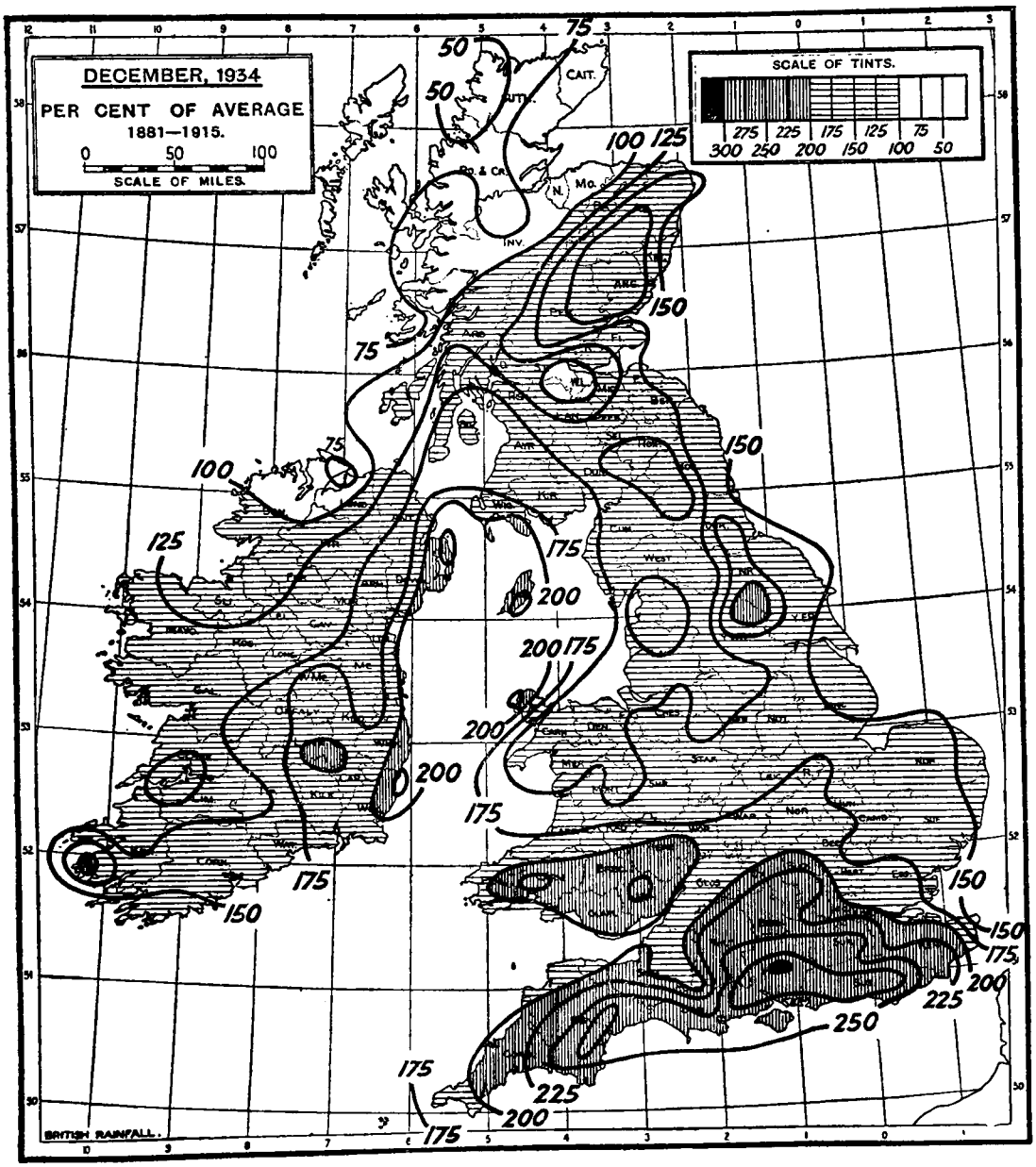
Rainfall, December, 1934.

Isles, the deficiency varying from 3·0 mb. at Lerwick to 16·5 mb. at Valentia. Large and complex depressions covered the country continuously and the weather was abnormally warm, the mean temperature in most places being equal to that usually obtaining in April.

The total rainfall varied from 2 inches round the Moray Firth

to over 20 inches in the English Lake District, Snowdonia, parts of South Wales and on Dartmoor. The largest fall was 30·80 inches recorded on Snowdon.

The distribution shown on the percentage map is in accord with that of mean pressure in that the largest excesses of rainfall occurred in the south rather than the north. The rainfall was below the



Rainfall, December, 1934, as per cent. of average.

average only in the extreme north-west of Scotland and the north of Ireland. Falls exceeding twice the average occurred in southern England and Wales, round the Irish Sea and in Co. Kerry. At Ovington, near Winchester, the rainfall for the month was 306 per cent. of the average.

Table XX.—*Monthly Rainfall at 400 Stations in the British Isles during* 1934.

ENGLAND

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
London	2	St. Pancras (Camden Square)	1·35	·20	1·96	2·24	·46	1·13	·94	1·94	2·78	1·09	1·85	4·80	20·74
Surrey	6	Haslemere (U.D.C. Depôt)	3·29	·08	3·52	2·61	·93	1·32	1·53	3·91	3·01	2·31	4·03	10·87	37·41
,,	6	Woking (The Green)	1·80	·23	2·21	1·87	·46	1·60	2·26	1·88	1·42	1·80	2·41	7·20	25·14
Kent	1	Tenterden (Ashenden)	2·63	·15	2·96	2·57	·61	2·10	1·30	1·69	1·47	2·32	2·73	7·58	28·11
,,	1	Folkestone (Cherry Gdns.)	3·11	·20	3·01	2·29	1·20	1·20	1·78	2·47	1·98	2·21	2·24	6·47	28·16
,,	2	Margate (Cliftonville)	1·44	·10	2·35	1·29	1·50	·70	·77	1·91	·99	1·70	1·73	3·25	17·73
,,	3	Teynham (New Gardens)	2·08	·22	2·58	2·24	·79	·74	1·07	1·39	1·17	1·70	2·32	4·31	20·61
,,	4	Strood Waterworks	1·79	·20	2·44	1·63	·56	1·62	1·16	1·61	1·27	1·44	1·60	4·19	19·51
,,	5	Westerham (Town)	2·94	·25	2·65	3·10	·71	1·73	1·63	2·01	2·03	2·20	3·63	7·04	29·92
Sussex	1	Bognor Regis (Waterloo Square)	2·39	·03	2·69	2·67	·48	1·11	1·15	2·58	1·59	1·98	3·66	8·63	28·96
,,	3	Worthing (Beech House Park)	2·29	·05	2·47	2·03	·45	1·41	·95	2·46	1·46	1·93	4·03	7·96	27·49
,,	4	Balcombe (The Gables)	3·32	·37	3·56	3·17	·90	1·68	2·54	2·46	2·24	3·14	4·94	10·31	38·63
,,	5	Eastbourne (Wilmington Sq.)	3·12	·04	2·93	2·40	·49	1·45	1·04	3·26	1·63	2·96	4·47	8·55	32·34
,,	5	St. Leonards (Gensing Gdns.)	3·21	·30	2·67	2·37	·57	1·91	1·15	2·00	1·04	2·59	3·69	7·76	29·26
,,	7	Crowborough (Beaconstone)	3·73	·10	3·72	3·68	·60	2·03	1·52	2·53	2·34	2·80	4·63	10·16	37·84
Hampshire	1	Totland Bay (Aston House)	2·50	·03	2·71	1·75	·73	1·20	·43	2·95	2·52	2·10	3·24	8·71	28·87
,,	4	Stockbridge (Houghton Lodge)	2·86	·08	3·68	1·99	·86	1·34	1·27	2·83	1·90	1·58	1·98	9·89	30·26
,,	5	Bishops Waltham (Park Ho.)	2·52	·15	3·06	2·42	1·25	1·54	·96	3·20	2·78	1·71	3·09	9·72	32·40
,,	8	Sherborne St. John	2·34	·06	2·48	1·74	·82	1·52	2·45	2·75	1·62	1·29	1·88	8·56	27·51
Berkshire	4	Bucklebury Place	1·85	·13	2·08	1·71	·68	1·46	1·19	2·50	1·65	1·00	1·58	6·55	22·38
,,	5	Upton (Manor House)	1·83	·06	1·84	1·71	·53	1·70	1·64	1·58	1·71	1·38	1·44	5·12	20·54
Hertfordshire	2	St. Albans (County Museum)	2·03	·42	2·15	1·63	·61	1·49	·99	1·99	1·47	1·35	1·80	5·02	20·95
,,	3	Royston (Therfield Rectory)	1·53	·47	1·80	1·91	·63	1·81	2·03	2·16	1·29	1·59	2·03	3·67	20·92
Buckinghamshire	3	Slough (Upton)	1·47	·13	2·14	1·53	·39	1·12	1·51	2·71	1·41	1·58	2·08	5·56	21·63
,,	3	Hampden House	2·37	·33	2·43	1·81	·76	1·86	1·25	2·06	2·01	1·74	2·06	4·71	23·39
,,	5	Wolverton (Gables Lodge)	1·49	·41	1·67	1·36	·54	1·01	2·30	1·46	2·36	1·58	2·30	4·75	21·23
Oxfordshire	2	Wootton Rectory	2·28	·31	1·93	2·08	·69	1·02	·32	1·80	3·05	1·49	1·92	6·32	23·21
Northamptonshire	1	Naseby Reservoir	1·62	·33	1·31	1·86	1·00	1·16	1·51	1·50	2·23	1·47	2·33	4·00	20·32
,,	4	Wellingborough (Swanspool)	1·31	·47	1·55	1·45	·73	·95	1·00	1·53	1·76	1·42	2·07	4·20	18·44
Huntingdonshire	1	St. Ives (Slepe House)	·98	·37	1·07	1·57	·55	1·14	1·83	1·86	1·65	1·55	1·51	3·18	17·26
Bedfordshire	3	Shefford Council School	1·16	·73	1·49	1·31	·63	·65	1·72	1·85	2·11	1·76	2·00	3·41	18·82
Cambridgeshire	2	Littleport (Highfield House)	·96	·36	1·24	2·17	·81	1·22	2·06	1·81	1·25	1·32	1·02	3·39	17·61

Table XX.—(*con.*) *Monthly Rainfall*—**ENGLAND**—(*con.*).

County and River		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in
Cambridgeshire.	3	Parson Drove (Clows Cross).....	·83	·58	1·26	1·81	·61	·87	1·57	1·93	1·33	·94	1·59	3·69	17·01
Essex	2	Leigh (Brick House).....	1·09	·18	1·84	1·60	·60	1·20	1·34	1·53	1·30	1·49	1·23	3·03	16·43
,, ...	2	North Weald (Canes).....	1·65	·17	2·33	1·90	·43	1·07	1·42	2·79	1·16	1·26	1·86	4·63	20·67
,, ...	3	Bradwell-on-Sea (Bradwell Hall)...	1·57	·16	2·05	1·81	1·04	·68	·91	1·18	1·75	1·18	2·07	4·14	18·54
,, ...	4	Gt. Bardfield (South Lodge).....	1·33	·15	2·25	1·41	·41	1·55	1·18	2·00	1·73	1·25	1·79	3·39	18·44
Suffolk	1	Hartest (Chadacre Institute)	1·36	·43	2·14	2·12	·75	2·04	1·63	1·83	1·91	1·44	1·41	4·22	21·28
,, ...	2	Copdock.....	1·24	·39	2·11	2·65	1·33	·70	2·35	1·66	1·58	1·63	1·73	4·14	21·51
,, ...	3	Orford (The Gables).....	1·51	·25	1·97	1·98	2·11	1·27	1·80	2·67	1·60	1·90	1·49	3·94	22·49
,, ...	3	Halesworth Rectory	1·68	·51	2·21	2·03	2·07	·95	1·07	2·12	1·41	1·70	1·87	3·79	21·41
,, ...	4	Yarmouth (Burgh Hall).....	1·93	·42	1·67	2·36	1·34	1·52	2·66	1·98	1·67	1·97	2·05	4·42	23·99
,, ...	5	Bury St. Edmunds (Westley Ho.)..	1·42	·31	2·16	2·63	·75	1·60	1·05	1·73	1·54	1·39	1·24	3·70	19·52
Norfolk.....	1	Diss (The Cedars).....	1·03	·62	1·45	2·43	1·50	1·50	1.24	1·70	1·27	1·51	·95	3·17	18·37
,, ...	1	Wymondham.....	1·10	·71	1·26	2·93	1·97	2·14	1·70	1·81	2·24	1·67	1·91	4·25	23·69
,, ...	1	Cawston (The Poplars).....	1·61	·86	1·58	2·48	2·07	1·52	1·23	1·72	2·64	1·97	1·67	3·54	22·89
,, ...	3	Sandringham House Gardens.....	1·63	·72	1·89	2·56	·85	1·15	1·22	2·91	1·95	1·80	1·20	3·77	21·65
,, ...	3	Langham Episcopi Vic.	1·66	·59	1·88	2·17	2·11	1·04	1·46	1·75	1·65	1·52	2·25	3·57	21·65
,, ...	4	Thetford Waterworks	1·34	·51	1·71	2·52	1·24	1·27	2·19	1·55	1·80	1·04	1·09	4·18	20·44
,, ...	4	Little Dunham (Dunham Cot.)....	2·06	·79	1·96	2·36	1·21	1·33	1·48	2·08	1·86	1·80	1·97	4·81	23·71
Wiltshire	1	Bradford (Manvers House).....	2·72	·08	2·77	2·11	1·17	1·22	2·25	3·07	3·27	2·18	1·44	7·02	29·30
,, ...	2	Mere (Charnage).....	2·96	·11	2·91	2·39	1·00	1·18	1·55	2·68	2·97	2·47	1·85	8·12	30·19
,, ...	3	Larkhill (School of Artillery).....	2·56	·08	3·02	1·96	·82	1·97	2·48	2·36	2·28	1·37	1·71	8·54	29·15
,, ...	5	Marlborough College	2·66	·19	2·48	2·42	1·03	1·26	1·62	2·73	2·46	2·25	1·75	8·76	29·61
Dorsetshire	3	Weymouth (Springfield).....	2·36	·06	2·39	1·74	·71	1·23	·15	2·63	2·63	2·02	2·03	9·04	26·99
,, ...	3	Beaminster (Farrs)	3·46	·22	2·96	3·64	1·28	·92	·24	4·15	4·17	2·74	2·02	13·83	39·63
,, ...	4	Winterbourne (Whitchurch Vic.)...	3·11	·07	3·40	2·13	·94	1·58	·18	3·00	3·25	2·11	1·96	10·50	32·23
,, ...	4	Wimborne (Codford House).....	2·20	·05	3·14	1·92	·75	1·33	·34	3·74	2·12	1·54	2·50	9·96	29·59
South Devonshire	3	South Brent (Beechfield)	6·97	·19	5·65	4·79	1·91	2·56	1·15	6·34	6·08	5·60	3·14	21·11	65·49
,, ,,	5	Teignmouth (Den Gardens).....	2·89	·18	2·86	3·22	·96	1·26	·41	3·28	2·33	2·41	2·24	10·92	32·96
,, ,,	6	Crediton (Okefield)	2·74	·21	2·97	2·94	1·35	2·26	·62	3·09	2·09	2·19	1·55	9·08	31·09
,, ,,	7	Ottery St. Mary (West Hill).....	2·87	·24	3·64	3·63	1·49	2·20	1·07	4·86	3·17	2·63	1·47	13·44	40·71
North Devonshire	1	Ilfracombe (Langleigh).....	4·50	·57	2·87	2·84	1·43	1·85	·38	4·01	3·73	4·63	2·96	9·27	39·04
,, ,,	3	Okehampton (Uplands)	6·82	·28	4·15	4·20	3·26	2·78	1·40	4·90	4·71	5·73	2·54	15·87	56·64

Table XX.—(*con.*) *Monthly Rainfall*—**ENGLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
North Devonshire	3	Torrington (Enfield)	3·76	·28	2·20	2·39	1·37	1·85	·28	4·30	3·16	3·64	2·48	8·22	33·93
Cornwall	1	Redruth (Trewirgie)	4·54	·35	4·91	3·80	2·43	1·98	·85	5·00	3·91	4·21	2·67	12·60	47·25
,,	1	Newquay (Mount Wise)	2·71	·26	2·78	2·74	1·61	1·46	·48	3·85	3·15	2·92	1·93	7·67	31·56
,,	1	Bude (School House)	3·50	·19	1·87	2·38	1·28	1·56	·63	3·44	2·70	3·06	2·67	7·07	30·35
,,	2	Penzance (Morrab Gardens)	4·66	·21	4·57	3·97	1·65	1·80	·58	3·11	3·41	3·08	2·91	10·68	40·63
,,	2	St. Austell (Trevarna)	4·56	·32	4·49	3·63	1·74	1·89	·63	5·27	4·23	4·76	2·08	13·03	46·63
,,	2	Liskeard (Treventon)	5·12	·21	4·16	3·77	1·83	2·36	·49	5·38	4·19	4·05	2·12	13·82	47·50
,,	2	Bolventor Vicarage	6·93	·36	5·14	4·73	3·24	3·05	1·16	6·75	5·21	7·40	2·50	18·00	64·47
,,	3	Devonport (Empacombe)	3·52	·16	3·92	2·87	1·52	1·82	·52	4·48	3·76	2·99	1·61	12·20	39·37
,,	4	Tresco Abbey	3·07	·53	3·61	2·18	1·11	1·89	1·70	2·61	1·78	1·76	2·46	7·76	30·46
Somersetshire	1	Long Ashton (Research Stn.)	2·16	·41	2·21	2·79	1·46	1·56	1·70	3·08	2·55	2·21	1·32	7·13	28·58
,,	2	Street (Portway)	2·28	·22	2·12	2·25	·95	·91	·91	3·78	2·30	2·40	1·16	6·11	25·39
,,	2	Burnham (Chalbury)	2·33	·36	2·30	2·74	1·07	·82	·96	3·35	2·62	3·26	1·36	7·21	28·38
,,	3	Taunton (The Park)	2·44	·21	2·41	3·01	1·10	1·70	·29	2·32	1·71	2·10	1·51	7·95	26·75
,,	5	Brushford Rectory	4·35	·46	3·22	3·58	1·95	3·04	1·00	4·18	3·30	4·01	1·99	11·46	42·54
Gloucestershire	3	Nailsworth (Three Corners)	3·03	·34	2·32	2·11	1·23	1·29	2·43	2·25	2·27	2·32	1·43	6·61	27·63
,,	3	Cheltenham (Montpellier Gdns.)	1·95	·43	2·47	2·54	·94	·97	2·17	2·08	1·98	1·21	1·80	4·87	23·41
,,	4	Blockley	2·31	·53	2·30	2·81	·74	1·64	1·19	2·01	2·08	1·35	1·93	6·00	24·89
,,	7	Lechlade (Claydon House)	1·92	·24	1·85	2·19	·78	1·64	1·45	1·46	1·70	1·69	1·70	5·44	22·06
Herefordshire	1	Ross-on-Wye	2·76	·38	2·16	1·87	1·29	·85	·67	1·79	1·77	1·11	1·94	5·81	22·40
,,	1	Weobley School	2·67	·25	2·64	3·36	1·24	1·54	1·17	2·79	1·81	1·84	1·81	5·29	25·41
Shropshire	3	Bromfield (Warwick House)	3·11	·30	2·33	2·38	1·65	1·23	1·20	2·84	1·87	2·19	1·81	5·82	26·73
,,	3	Bishops Castle (The Vicarage)	3·28	·26	2·68	3·13	1·61	1·67	1·83	2·22	1·69	2·25	1·47	5·61	27·70
,,	4	Shifnal (Hatton Grange)	2·32	·31	2·00	2·67	·99	1·43	1·66	2·37	1·75	2·51	2·33	4·22	24·56
Staffordshire	2	Kingswinford (Ashwood P.S.)	2·74	·35	2·01	2·18	1·04	1·03	2·02	1·99	1·91	1·33	1·73	4·46	22·79
,,	2	Market Drayton (Old Springs)	2·11	·42	1·64	2·19	1·04	·73	1·25	2·39	1·81	3·04	2·31	4·35	23·28
,,	3	Lichfield (Hanch Reservoir)	2·22	·18	2·14	1·80	·91	·94	1·16	2·14	1·62	1·83	1·82	4·33	21·09
,,	3	Stafford (Victoria Pleasure Gd.)	2·54	·27	2·86	1·80	·92	1·00	1·55	3·27	1·90	3·28	2·41	4·42	26·22
,,	5	Mayfield	3·10	·40	2·65	1·98	1·26	·75	1·36	2·83	2·35	2·74	1·80	5·80	27·02
Worcestershire	1	Malvern (Free Library)	2·72	·45	2·15	3·12	1·15	·96	1·02	2·28	2·01	1·46	1·87	6·04	25·23
,,	2	Bewdley (C.E. School)	2·70	·31	2·07	2·16	1·25	·93	·86	2·01	1·53	1·59	1·84	5·45	22·70
,,	3	Redditch (Hewell Gardens)	2·50	·42	2·34	2·22	·98	·87	1·12	2·29	2·22	1·41	2·18	5·31	23·86

Table XX.—(*con.*) *Monthly Rainfall*—**ENGLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in
Warwickshire ..	1	Warwick Castle Gardens.....	1·73	·36	1·48	2·19	·69	1·03	1·49	1·80	1·80	1·37	1·62	4·38	19·94
,, ..	1	Coventry (City Hospital)	2·17	·42	1·52	1·93	·71	1·15	1·48	2·18	1·63	1·57	1·54	4·65	20·95
Leicestershire ..	4	Loughborough (Nan Pantan Res.)..	2·64	·58	1·92	3·18	1·10	·69	·91	2·28	1·75	1·49	2·29	4·61	23·44
,, ..	4	Grantham (Belvoir Castle Gdns.)..	2·03	·52	1·86	2·41	·72	·72	2·76	1·95	1·28	1·07	2·09	3·98	21·39
Rutlandshire...	1	Uppingham (Ridlington)	1·58	·49	1·67	2·15	·71	·97	·85	1·62	1·76	1·27	2·19	4·92	20·18
Lincolnshire....	2	Market Deeping (Wilsthorpe).....	·96	·51	1·15	2·39	·43	1·01	1·54	1·39	·89	·65	1·82	2·86	15·60
,, ...	3	Boston (Black Sluice, Skirbeck)....	1·60	·52	1·87	1·80	·80	·58	1·29	2·09	1·24	1·17	1·97	3·42	18·35
,, ...	3	Cranwell (Aerodrome).....	1·64	·48	2·05	2·02	·50	·63	2·94	2·13	1·06	·98	1·73	3·37	19·53
,, ...	3	Hackthorn Hall.....	1·75	·84	1·62	3·14	1·02	·87	1·18	2·28	1·35	·84	2·17	4·20	21·26
,, ...	4	Skegness (Marine Gardens).....	1·25	·76	1·40	2·24	·93	1·89	·87	2·55	1·17	1·18	1·48	3·26	18·98
,, ...	4	Louth (Westgate)	1·76	1·14	2·32	2·25	1·19	1·83	1·62	2·28	1·52	1·36	2·33	3·96	23·56
,, ...	5	Brigg (Wrawby Road).....	1·92	1·49	1·39	2·05	·94	1·76	1·00	2·02	1·89	1·21	2·03	3·64	21·34
Nottingham....	2	Newark.....	1·67	·47	1·67	1·58	·73	·49	2·48	1·80	1·18	1·02	1·79	3·78	18·66
,, ...	5	Mansfield (West Bank).....	2·39	·84	2·83	2·73	1·21	·84	2·25	1·72	1·71	1·60	2·10	5·18	25·40
Derbyshire.....	5	Littleover (The Knoll).....	2·65	·45	1·89	1·96	·98	·92	·95	1·99	1·88	1·87	2·20	4·49	22·23
,, ...	6	Matlock Bath (Lower Tower).....	2·86	·24	3·10	2·46	1·52	·89	1·51	2·23	2·49	2·28	1·79	6·02	27·39
,, ...	6	Buxton (Terrace Slopes).....	5·24	·32	4·14	2·57	3·22	1·68	2·72	3·19	4·15	5·89	2·00	7·94	43·06
Cheshire.....	1	Altrincham (Burlington Cot.).....	2·12	·27	2·26	1·85	2·24	1·85	1·76	2·52	2·46	4·76	1·49	4·68	28·26
,, ...	2	Northwich (Winnington)	1·91	·24	1·74	1·39	1·41	1·77	1·65	2·75	1·84	3·36	1·76	4·39	24·21
,, ...	4	Eccleston	1·42	·25	1·64	2·00	1·50	1·76	·86	3·23	1·60	3·49	2·10	4·25	24·10
,, ...	4	Neston (Vine House).....	1·61	·19	1·71	1·63	1·53	1·25	1·18	2·49	1·86	3·32	2·72	4·33	23·82
South Lancashire	3	Bolton (Queen's Park).....	3·96	·48	3·36	2·78	3·41	2·03	2·23	4·81	3·49	6·45	2·30	6·67	41·97
Central ,,	1	Burnley (Swinden)	4·62	·58	3·44	3·39	3·72	2·52	2·65	4·60	4·47	5·61	2·45	7·30	45·35
,, ,,	3	Southport (Hesketh Park).....	2·54	·10	1·72	2·15	3·06	1·77	1·29	3·32	3·04	4·36	2·83	4·52	30·70
North ,,	1	Ulverston (Poaka Beck).....	6·31	·41	3·30	3·71	4·26	3·01	1·73	7·07	6·40	6·82	2·42	8·25	53·69
,, ,,	4	Lancaster (Greg Obsy.).....	5·07	·15	2·16	3·10	4·58	2·65	2·27	4·64	5·24	6·40	1·46	5·15	42·87
,, ,,	5	Barton (Newsham House).....	3·78	·14	2·31	3·15	3·44	2·82	1·66	5·19	4·31	5·71	2·19	5·56	40·26
Yorkshire, W.R.	2	Settle (Gas Works).....	5·11	·28	2·58	2·72	3·77	2·59	1·70	4·72	4·38	6·24	1·43	7·51	43·03
,, ,,	7	Sheffield (Weston Park).....	2·70	·30	3·03	2·57	1·30	·92	1·56	1·08	1·78	2·60	1·97	4·87	24·68
,, ,,	7	Doncaster (Avenue Road).....	1·67	1·13	1·85	2·57	·96	1·77	1·92	1·32	1·46	1·11	2·53	3·79	22·08
,, ,,	8	Meltham (Harewood Lodge).....	4·70	·31	4·42	3·00	3·20	2·25	3·13	2·59	2·30	5·35	2·34	5·29	38·78
,, ,,	9	Leeds (Wortley Reservoir).....	1·82	·22	2·14	2·69	1·41	1·76	2·14	·99	2·39	2·01	1·80	4·28	23·65
,, ,,	10	Ilkley (Spence's Garden).....	3·34	·26	3·73	3·77	2·11	2·16	1·71	2·75	2·29	3·46	1·91	5·95	33·44

Table XX.—(*con.*) *Monthly Rainfall*—**ENGLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in
Yorkshire, W.R.	10	York (Cherry Hill)	1·60	1·88	1·80	2·24	·95	1·73	1·52	1·35	2·10	1·02	1·53	4·39	22·11
,, ,,	10	Buckden	5·83	·28	5·18	4·75	4·69	2·99	3·87	4·71	4·43	8·33	3·12	7·78	55·96
,, ,,	11	Knaresborough (The Abbey)	1·93	·49	2·32	3·07	1·51	1·94	2·21	1·24	2·18	2·29	1·99	4·97	26·14
,, E.R.	2	Birdsall Gardens	2·40	1·37	3·27	3·09	1·59	1·43	1·38	2·78	1·71	1·64	2·18	4·69	27·53
,, ,,	3	Patrington (Rose Cottage)	1·21	1·09	2·26	1·61	·51	·78	1·11	2·11	1·67	1·41	2·11	3·69	19·56
,, ,,	3	Holme-on-Spalding Moor	1·79	1·01	1·94	2·14	1·37	1·40	1·71	2·59	2·17	1·80	1·80	4·13	23·85
,, ,,	3	Beverley (E. Riding Mental Hosp.)	1·64	2·18	2·21	2·72	·95	1·12	1·40	2·40	1·66	1·58	2·30	4·17	24·33
,, ,,	4	Bridlington (Corpn. Nurseries)	1·61	2·21	2·69	2·41	·75	1·32	1·66	2·36	1·90	1·98	3·22	4·35	26·46
,, N.R.	1	Masham Moor (Roundhill Res.)	3·16	·31	4·14	4·40	2·57	2·06	1·00	2·82	2·84	4·71	3·40	7·27	38·68
,, ,,	2	Felixkirk (Mount St. John)	1·84	1·42	2·47	2·61	·84	1·49	3·46	2·66	1·91	2·77	2·18	5·31	28·96
,, ,,	2	Reeth (Arkengarthdale)	5·01	·87	5·28	6·10	2·88	1·49	1·29	2·72	2·55	6·85	3·04	5·82	43·90
,, ,,	4	Pickering (Hungate Hall)	1·46	1·86	2·64	2·47	1·18	1·25	1·82	3·19	1·26	2·12	1·96	3·69	24·90
,, ,,	5	Whitby (Mulgrave Castle)	1·48	1·96	2·59	2·21	·94	1·91	1·91	2·69	·92	1·83	3·69	4·75	26·88
,, ,,	6	Middlesbrough (Albert Park)	·83	·75	1·43	2·40	·66	2·34	1·56	2·26	1·72	2·65	2·05	3·27	21·92
Durham	2	Burnhope (Lodgegill Mine)	7·60	·55	5·50	6·20	5·00	2·85	4·95	5·00	4·90	10·60	3·40	8·80	65·35
,,	2	Durham (Houghall, Hort. Stn.)	1·23	·47	2·91	3·63	1·32	2·03	2·58	3·17	1·48	3·23	2·49	4·22	28·76
,,	2	Weardale W.W. (Waskerley)	2·16	·37	4·14	5·33	2·00	3·62	3·15	3·66	1·89	5·02	2·21	4·42	37·97
,,	2	Sunderland (W. Hendon Ho.)	1·60	·53	2·57	3·58	1·11	2·23	1·65	3·38	1·39	3·13	2·61	3·61	27·39
Northumberland	3	Corbridge (Howden Dene)	1·98	·29	3·55	4·01	1·32	2·89	3·92	3·15	1·58	3·53	2·97	3·25	32·44
,,	4	Bellingham (Highgreen)	3·81	·15	4·50	3·90	1·73	2·46	3·54	4·22	2·31	5·98	2·08	4·47	39·15
,,	5	Morpeth (Cockle Park)	1·71	·30	3·38	5·49	1·20	1·69	3·21	4·05	1·81	3·53	3·99	4·64	35·00
,,	5	Fontburn Res. (Tynemouth W.W.)	2·46	·62	4·59	5·39	1·61	2·23	3·05	3·98	1·94	5·22	4·18	4·82	40·09
,,	6	Wooperton	1·87	·87	4·98	5·36	1·64	2·64	1·43	4·16	1·77	5·73	4·93	5·76	41·14
,,	6	Ilderton (Lilburn Tower Gdns.)	1·68	·53	4·35	5·20	1·62	2·56	1·52	3·57	1·49	5·31	4·09	4·84	36·76
Cumberland	1	Penrith (Laurel Bank)	4·46	·22	2·18	3·47	2·86	2·14	1·75	2·46	3·67	5·30	·45	5·82	34·78
,,	1	Geltsdale	4·80	·25	2·58	3·02	3·26	3·53	3·13	4·42	3·22	5·32	1·69	4·32	39·54
,,	1	Carlisle (Scaleby Hall)	4·15	·16	2·28	2·64	2·80	3·67	2·67	4·12	4·06	4·65	·50	4·32	36·02
,,	2	Borrowdale (Stockley Bridge)	22·25	3·00	8·00	6·75	12·00	6·50	4·25	17·75	17·75	22·50	6·00	22·00	148·75
,,	2	Keswick (Derwent Island)	9·92	·26	3·18	3·61	5·03	2·71	1·82	6·80	7·62	8·97	1·11	9·15	60·18
,,	3	St. Bees (Fern Bank)	5·29	·26	1·93	2·77	3·93	2·25	1·12	3·90	5·04	6·48	1·64	7·04	41·65
Westmorland	1	Kirkby Stephen (Eden Place)	5·15	·23	3·07	3·17	3·33	2·18	2·31	3·30	3·79	6·63	1·09	5·53	39·78
,,	1	Appleby (Castle Bank)	4·62	·18	2·32	2·71	3·10	1·77	1·69	3·53	3·32	6·00	·74	5·44	35·42
,,	3	Kendal (Highgate)	5·96	·26	2·72	2·76	3·80	3·68	3·19	4·29	6·58	7·20	1·05	9·19	50·68

Table XX.—(*con.*) *Monthly Rainfall*—**MONMOUTH AND WALES, AND THE ISLANDS.**

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Monmouth	3	Newport W.W. (Nantypridd)	4·42	·68	2·32	2·98	1·77	1·97	·68	4·31	4·12	3·50	1·80	10·67	39·22
,,	3	Abergavenny (The Chain)	5·09	·33	3·55	3·29	1·82	1·33	2·53	3·68	1·96	2·96	2·35	10·55	39·44
Glamorgan	3	Swansea (Victoria Park)	5·17	·58	2·99	3·23	2·06	1·97	1·00	3·37	4·05	3·34	1·84	11·00	40·60
,,	5	Bridgend (Eiw Graig)	3·60	·77	2·55	2·74	1·63	1·59	·44	6·04	3·66	3·73	1·91	11·16	39·82
,,	6	Treherbert (Tyn-y-waun)	14·23	·94	7·14	6·05	5·16	3·25	2·55	8·48	8·40	10·19	3·77	23·36	93·52
,,	7	Cardiff (Roath Park)	3·69	·65	2·03	2·81	1·63	1·63	1·57	4·01	3·41	3·30	1·61	10·99	37·33
Carmarthen	2	Carmarthen (Priory Street)	5·80	·67	4·20	3·55	2·62	2·06	·34	4·05	5·61	5·01	2·10	12·74	48·75
,,	2	Abergorlech	6·63	·60	4·29	3·39	3·01	1·92	·52	5·59	6·97	7·57	2·94	17·17	60·60
Pembroke	4	Pembroke (Stackpole Court)	3·96	·44	2·74	2·66	1·75	1·61	1·04	5·07	2·98	3·30	1·97	9·45	36·97
,,	4	Saundersfoot (Hean Castle)	3·76	·11	3·28	2·68	1·48	1·65	1·10	4·30	3·25	3·98	1·73	8·20	35·52
,,	4	Haverfordwest (Picton Castle)	5·12	·53	4·13	3·20	2·18	1·67	1·21	5·57	3·76	5·07	2·28	11·54	46·26
Cardigan	2	Aberystwyth (Plant Breeding Stn.)	3·31	·50	2·92	2·60	4·22	2·06	1·75	4·48	3·98	4·72	1·87	7·27	39·68
,,	3	Cardigan (Pl s Llan goedmore)	3·58	·53	3·28	3·17	2·17	·90	·71	3·43	3·95	4·26	1·94	8·09	36·01
,,	3	Lampeter (Falcondale)	5·59	·63	4·32	3·24	3·06	1·34	1·16	5·25	5·20	7·62	2·60	11·72	51·73
,,	5	Plynlimon	9·50	·20	7·00	6·00	6·50	4·00	5·50	11·50	7·00	14·00	4·50	15·00	90·70
Brecon	7	Swansea W.W. (Cray Res.) No. 1	10·98	·70	6·17	5·34	3·70	2·37	1·22	5·26	6·42	7·37	3·29	17·49	70·31
,,	8	Birmingham W.W. (Cors-yr-hwch)	11·10	·82	8·75	6·15	4·60	3·60	4·30	11·40	9·15	11·70	4·55	19·10	95·22
Radnor	1	Llandrindod Wells (Disserth Rec.)	4·90	·43	4·18	3·57	2·22	1·46	1·91	3·43	3·31	4·39	2·21	10·64	42·65
Montgomery	4	Newtown (Penarth Weir)	4·11	·34	3·04	4·10	2·10	1·62	1·80	2·77	2·08	3·40	2·37	5·80	33·53
,,	5	Llandysilio Rectory	2·61	·17	1·55	1·63	1·43	·77	·89	2·39	·82	2·77	1·62	4·06	20·71
,,	5	Lake Vyrnwy	7·96	·38	5·58	3·80	4·05	3·09	1·21	5·39	5·17	7·35	2·74	10·76	57·48
Flint	2	Rhyl (Sewage Works)	1·71	·13	1·78	1·49	2·02	1·11	·56	2·19	1·46	3·94	1·30	3·79	21·48
Denbigh	1	Wrexham (Packsaddle Res.)	2·62	·24	2·86	3·21	1·71	1·03	1·81	3·38	1·47	3·73	1·82	6·00	29·88
,,	2	Llangynhafal (Plâs Drâw)	2·10	·31	2·38	3·03	2·27	1·06	1·37	3·18	1·68	4·33	2·53	4·48	28·72
,,	3	Pentre Voelas (Voelas Hall)	6·56	·49	3·57	3·30	4·49	2·67	1·79	5·94	4·61	10·18	1·88	9·35	54·83
Merioneth	3	Festiniog (Hafod Fawr)	7·26	·60	3·90	3·76	5·93	2·93	1·61	8·20	5·98	11·71	2·20	12·43	66·51
,,	4	Dolgelly (Bontddu)	5·73	·81	5·49	4·42	5·93	2·35	2·02	8·79	4·90	10·92	2·11	9·36	62·83
Carnarvon	2	Llandudno (Cricket Ground)	2·54	·27	1·90	1·52	3·17	1·30	·88	2·97	1·76	3·94	1·65	4·19	26·09
,,	3	Bethesda (Penrhyn Quarries)	7·73	·84	4·99	4·81	8·08	2·53	2·66	7·44	6·19	9·27	4·98	12·86	72·38
,,	4	Pwllheli (Bodfean Hall Gardens)	4·41	·47	3·23	1·80	3·96	2·04	·74	5·80	5·86	7·06	2·58	10·55	48·50
,,	5	Snowdon (Cwm Dyli)	14·37	1·06	7·85	5·62	9·96	5·68	2·50	14·09	14·66	21·27	4·02	18·48	119·56

Table XX.—(*con.*) *Monthly Rainfall*—**MONMOUTH AND WALES**—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Anglesey.....	Holyhead (Salt Island).....	3·53	·26	1·98	1·24	3·93	1·57	·44	2·91	3·81	4·89	2·76	9·57	36·89
,, ...	Llanerchymedd (Llwydiarth Esgob)	3·39	·38	2·18	1·88	4·18	1·95	·40	3·74	4·37	6·43	2·93	9·00	40·83
	ISLE OF MAN.													
Isle of Man.....	Douglas (Borough Cemetery).....	4·92	·25	2·93	2·82	3·36	2·94	·46	3·43	4·61	6·00	2·83	11·31	45·86
,, ...	Ramsey (North Promenade).....	4·71	·13	3·05	2·71	2·50	1·75	·96	3·89	4·90	5·81	2·79	12·89	46·09
	CHANNEL ISLANDS.													
Jersey.....	St. Aubins (Belle Vue).....	3·58	·23	4·20	1·78	·72	1·22	·57	4·54	2·46	3·92	3·87	7·47	34·56
Guernsey	St. Martin's (Les Blanches).....	3·35	·05	3·98	1·83	·91	1·74	·11	2·84	2·24	3·33	4·75	8·74	34·87
Sark	Pointe Robert	3·27	·03	3·45	1·60	1·24	1·56	·19	2·80	2·97	2·64	3·15	8·21	31·11
Alderney	St. Anne (Grosnez House)..... ...	3·83	·04	2·93	1·49	1·27	1·74	·26	2·00	2·11	2·57	5·33	7·10	30·67
	SCOTLAND.													
Wigtownshire .. 3	Whithorn (Glasserton)	4·24	·42	2·65	3·12	3·43	2·11	2·12	4·01	5·12	6·18	1·83	9·82	45·05
,, .. 3	Port William (Monreith).....	4·30	·44	2·70	2·95	3·94	1·78	2·58	4·61	5·02	6·01	2·00	9·60	45·93
,, .. 4	Kirkcowan (Craighlaw).....	5·74	·72	2·90	3·62	4·43	2·57	3·73	5·54	6·01	7·77	1·71	10·38	55·12
Kirkcudbrightsh'e 3	Dalry (Glendarroch)	8·50	·58	2·85	3·46	3·94	2·22	2·92	4·92	6·45	7·93	1·19	11·28	56·24
,, 4	Dalbeattie (Drumstinchall).....	7·15	·40	2·78	4·17	3·75	2·70	2·02	7·11	5·94	5·49	·90	7·90	50·31
Dumfriesshire .. 3	Moniaive (Glencrosh)	8·97	·40	3·46	3·96	4·22	2·74	2·94	6·41	6·83	7·12	·99	11·21	59·25
,, .. 4	Dalton (Whitecroft).....	5·93	·25	2·57	3·81	2·97	3·50	2·43	5·53	6·10	4·79	·61	6·99	45·48
,, .. 5	Langholm (Ewes, Sandyhaugh)....	8·40	·20	3·90	4·48	3·71	3·11	3·20	7·12	6·62	8·50	1·37	7·82	58·43
,, .. 5	Eskdalemuir Observatory.....	11·20	·40	4·46	5·09	4·79	2·59	2·53	7·00	7·14	9·76	2·26	8·74	65·96
Roxburghshire.. 3	Jedburgh (Jedneuk)	1·80	·17	3·01	3·38	1·67	2·15	1·83	2·72	1·36	5·06	1·92	3·23	28·30
Selkirkshire 1	Selkirk (Whitmuir Hall)	2·79	·12	3·32	4·25	2·28	2·32	2·26	3·69	3·00	5·09	2·23	4·52	35·87
Peeblesshire.... 1	Edin. W.W. (Victoria Lodge).....	7·42	·21	4·27	4·90	3·71	1·80	2·41	4·72	6·69	7·72	2·20	8·76	54·81
,, ... 2	Stobo Castle.....	3·72	·21	4·05	3·49	3·16	2·05	2·81	3·58	2·92	5·59	1·71	4·81	38·10
Berwickshire ... 2	Earnscleugh Burn (Blythe Rig)....	3·05	·15	6·17	5·60	3·38	2·56	3·53	4·24	2·62	4·63	4·73	5·53	46·19
,, ... 4	Marchmont House.....	1·52	·18	4·30	4·76	1·83	2·87	1·92	3·25	2·62	4·22	2·91	4·08	34·46
East Lothian .. 5	North Berwick Reservoir.....	1·27	·04	3·18	2·84	1·43	1·91	2·68	2·97	1·67	2·46	2·07	3·28	25·80
Midlothianshire. 5	Pentland Hills (Harperrig).....	4·41	·29	3·88	6·38	1·97	2·64	2·57	3·69	3·10	5·05	2·48	5·32	41·78

Table XX.—(*con.*) *Monthly Rainfall*—**SCOTLAND**—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midlothianshire. 5	Edinburgh (Blackford Hill)	1·96	·09	2·72	4·06	1·24	2·47	2·83	3·27	1·69	3·27	·93	2·50	27·03
Lanarkshire.... 4	Gartcosh (Gartloch Hospital).....	4·11	·37	2·69	3·58	2·12	2·03	2·05	4·27	4·35	5·52	1·25	3·27	35·61
,, ... 5	Douglas (Kilncroft).....	6·43	·79	4·28	4·58	3·79	2·48	3·06	4·12	4·30	7·72	1·30	6·20	49·05
,, ... 5	Strathaven (East Overton Ho.)....	7·26	·91	2·83	4·32	3·11	3·35	2·47	5·12	4·42	7·39	1·40	5·05	47·63
Ayrshire..... 3	Dalry W. W. (Filters)	5·92	·81	2·66	3·28	3·60	3·40	3·30	5·48	7·64	9·84	2·02	9·08	57·03
,, ... 6	Maybole (Culzean Castle Gardens)..	5·20	·63	2·94	2·82	3·93	2·16	1·77	4·88	4·39	7·01	1·61	6·44	43·78
,, ... 8	Colmonell (Knockdolian).....	4·85	·50	2·29	2·63	4·53	2·18	1·91	3·56	5·97	5·66	1·31	9·56	44·95
,, ...13	Glen Afton (Ayr Sanatorium).....	9·37	·81	3·72	4·57	4·35	3·11	2·89	6·46	6·85	9·28	1·33	10·02	62·76
Renfrewshire... 2	Houston Manse	8·72	·77	3·26	3·76	2·43	2·66	2·17	4·81	6·81	7·84	1·75	6·19	51·17
Dumbartonshire 2	Cardross (Kilmahew).....	7·07	·78	2·67	3·60	2·84	2·75	2·64	4·61	5·96	7·49	1·63	8·72	50·76
Stirlingshire.... 1	Falkirk (Westbank Garden).....	5·17	·28	3·17	3·57	1·68	2·30	2·59	3·77	3·54	4·55	·98	3·69	35·29
Buteshire..... 1	Port Bannatyne (Ettrickdale).....	5·95	1·10	3·24	3·49	4·20	2·91	3·36	4·86	8·04	9·63	2·14	9·17	58·09
,, ... 3	Arran (Dougarie Lodge).....	4·31	·64	4·23	4·72	3·85	2·96	2·23	5·01	5·88	8·05	1·79	9·57	53·24
Argyllshire..... 2	Loch Sunart (Glenborrodale).....	8·47	2·39	3·46	4·27	4·46	4·10	5·32	6·17	11·78	12·49	1·55	8·56	73·02
,, ... 2	Acharacle (Shielbridge).....	9·60	2·58	3·66	4·51	5·12	3·50	5·59	6·08	11·60	10·53	2·56	8·50	73·83
,, ... 3	Morvern (Kingairloch).....	19·21	3·56	5·40	7·68	7·01	2·61	7·26	9·04	16·53	18·22	3·71	11·45	111·68
,, ... 4	Duror (Achara)	13·66	2·19	3·73	4·65	5·76	2·18	5·62	7·39	11·16	12·45	2·20	9·13	80·12
,, ... 5	Glen Etive	17·41	5·00	6·49	4·84	8·24	2·74	7·69	11·58	13·88	18·40	5·45	14·35	116·07
,, ... 7	Oban	8·47	1·40	2·67	2·66	3·62	2·65	3·49	5·16	6·90	9·40	1·98	6·13	54·53
,, ...10	Campbeltown (South Park).....	5·84	·89	3·52	3·04	3·94	2·37	1·89	4·75	7·45	9·35	2·43	9·22	54·69
,, ...10	Skipness (Claonaig).....	5·98	1·00	3·35	2·90	3·10	2·52	3·28	5·36	6·39	8·73	2·52	6·43	51·56
,, ...11	Ardrishaig (Canal Office).....	8·79	1·98	4·28	4·21	5·00	3·18	3·80	7·76	10·41	13·98	2·47	10·20	76·06
,, ...11	Ardkinglas	12·94	2·06	4·19	5·35	6·39	2·50	3·48	6·04	11·14	12·76	2·61	14·52	83·98
,, ...12	Loch Eck (Benmore).....	14·73	2·31	5·09	6·62	6·76	3·86	5·13	9·45	12·53	17·91	3·73	14·84	102·96
,, ...14	Islay (Eallabus)	6·01	·84	3·39	3·17	3·47	2·43	3·05	3·95	6·15	9·88	2·57	6·76	51·67
,, ...14	Jura (Ardfin)	6·52	1·00	3·19	2·77	3·12	3·23	2·89	5·09	7·47	10·91	2·72	6·23	55·14
,, ...14	Colonsay.....	4·67	1·08	3·61	2·21	2·98	2·99	2·97	4·69	6·16	7·45	1·74	4·76	45·31
,, ...14	Mull (Bunessan).....	5·38	·94	3·12	3·32	3·98	3·95	3·19	4·54	6·92	7·67	2·04	6·21	51·26
,, ...14	Mull (Benmore).....	9·60	(3·50)	(6·80)	8·30	14·50	3·20	13·50	13·30	13·70	26·20	(5·90)	11·60	130·10
,, ...14	Tiree.....	4·63	·69	2·56	3·35	2·85	3·49	3·32	4·43	8·00	5·62	1·67	5·11	45·72
Fifeshire..... 2	Kirkcaldy (Munro Street).....	1·77	·22	3·31	4·15	1·99	2·31	2·52	3·56	2·40	2·76	·68	3·28	28·95
,, ... 3	Cupar (Asylum)	2·09	·07	3·65	3·91	2·14	1·81	3·60	3·69	2·85	3·04	·72	4·36	31·93

Table XX.—(*con.*) *Monthly Rainfall*—**SCOTLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Perthshire	3	Loch Drunkie	11·50	·95	4·25	4·90	3·30	2·90	3·40	5·70	9·10	10·80	1·80	11·60	70·20
,,	3	Glengyle	17·20	2·55	5·95	8·20	5·70	3·55	4·50	7·25	12·40	14·55	2·20	16·30	100·35
,,	4	Glendevon (Gleiquey Reservoir)	9·62	·57	5·30	6·16	3·69	2·95	4·13	5·69	6·25	8·19	1·98	6·93	61·46
,,	7	Lochearnhead (Edinchip)	12·95	1·11	4·82	6·20	3·96	2·35	3·78	5·91	9·70	10·04	1·72	16·37	78·91
,,	7	Crieff (Strathearn Hydro)	5·66	·17	3·21	4·36	2·07	1·52	2·69	4·20	5·33	5·40	·74	7·65	43·00
,,	11	Aberfeldy (Dall Avon)	5·84	·50	2·97	3·08	2·66	1·07	3·31	4·03	4·01	5·35	·28	10·16	43·26
,,	14	Loch Rannoch (Dall)	9·69	·96	4·11	3·98	3·14	1·13	3·07	3·68	5·67	7·13	·30	8·74	51·60
,,	14	Blair Atholl (Blair Castle Gdns.)	4·44	·53	1·70	2·02	2·78	1·00	3·41	4·25	5·08	5·63	·29	6·42	37·55
,,	15	Kirkmichael (Ballintuim Ho.)	3·95	·37	2·78	3·44	2·19	1·08	4·52	5·29	5·50	5·56	·55	8·19	43·42
Angus	1	Kettins School	2·21	·08	3·27	4·81	1·87	1·03	3·55	5·32	3·51	3·21	·71	6·13	35·70
,,	3	Arbroath (W. Cemetery)	1·27	·07	2·09	5·08	1·92	·96	2·97	2·63	2·72	2·67	1·15	4·18	27·71
,,	3	Glen Prosen (Pearsie House)	2·91	·26	3·33	4·51	2·62	·93	4·11	4·06	5·08	4·17	·82	8·28	41·08
Kincardineshire	1	Marykirk (Balmakewan)	1·69	·10	2·84	5·71	2·67	·91	2·69	2·99	3·33	3·33	1·08	5·89	33·23
,,	3	Strachan (Bridge of Dye)	2·50	·53	4·57	8·09	3·63	1·00	2·87	4·38	3·49	4·89	2·85	10·47	49·27
Aberdeenshire	1	Braemar (Bank)	3·80	·44	2·65	3·96	2·99	1·39	4·11	4·52	2·94	4·41	1·52	7·23	39·96
,,	1	Ballater (Irrigation Farm)	1·47	·51	3·66	6·23	3·34	1·81	3·25	3·20	1·72	3·37	2·26	7·46	38·28
,,	1	Logie Coldstone School	·95	·40	2·67	6·43	2·91	1·42	3·34	3·49	1·63	3·33	2·33	4·90	33·80
,,	2	Aberdeen Observatory	1·72	·65	1·09	6·15	3·45	1·20	1·72	4·38	2·90	3·48	2·42	4·18	33·34
,,	2	Dyce (Craibstone)	1·56	·44	1·41	6·70	3·78	·80	2·39	5·23	2·96	3·55	2·76	5·62	37·20
,,	3	Haddo House	1·52	1·66	1·52	5·32	2·99	·63	1·81	4·33	2·35	3·33	2·40	5·24	33·10
,,	4	Peterhead (Forehill Works)	1·75	1·31	1·29	3·85	3·52	·94	1·76	3·53	2·70	3·63	3·02	3·27	30·57
,,	5	Huntly (Cruchie)	1·52	1·23	1·69	4·51	2·56	1·18	4·55	4·91	1·79	3·38	3·04	3·61	33·97
Banffshire	2	Turriff (Forglen Gardens)	1·53	1·96	1·63	4·79	2·92	1·54	3·21	4·57	2·16	4·13	3·19	3·57	35·20
Morayshire	2	Fochabers (Gordon Castle)	·99	1·29	2·00	4·06	2·57	2·21	3·03	3·58	1·43	3·92	1·73	2·10	28·91
,,	3	Grantown-on-Spey	2·48	·93	2·81	3·49	2·70	1·86	4·47	3·01	1·24	4·80	1·74	2·81	32·34
,,	3	Aberlour (Wester Elchies)	1·03	1·11	2·16	4·52	2·80	1·65	3·57	3·38	·82	4·09	3·03	2·02	30·18
Nairnshire	2	Nairn (Achareidh)	1·95	·64	2·65	4·27	2·11	1·42	4·31	1·88	1·26	2·87	·88	2·17	26·41
Inverness-shire	3	Cluny Castle	7·15	1·15	3·25	4·01	3·23	1·69	3·24	3·18	5·05	7·21	·77	4·28	44·21
,,	3	Alvie Manse	4·14	·71	3·20	5·01	2·71	1·07	3·87	2·34	1·76	4·96	1·39	2·40	33·56
,,	6	Loch Ness (Foyers)	6·24	1·05	4·41	6·00	2·94	1·95	3·52	2·05	3·13	5·78	·93	3·09	41·09
,,	7	Loch Quoich (Glenquoich)	21·27	6·60	4·99	6·78	9·11	3·66	5·46	10·40	13·88	20·63	6·42	11·48	120·68

Table XX.—(*con*). *Monthly Rainfall*—**SCOTLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Inverness-shire	12	Loch Nevis (Inverie Gdns.)	11·07	4·65	3·91	6·05	6·32	4·47	7·43	8·38	10·87	13·83	3·98	9·69	90·65
,,	13	Arisaig House	6·56	2·61	3·22	3·18	5·48	4·47	6·41	6·22	10·19	11·00	3·48	6·84	69·66
,,	17	Glenleven (Corrour)	13·40	3·56	4·58	6·40	4·10	1·36	4·05	6·35	10·44	15·35	2·38	10·18	82·15
,,	17	Fort William (Glasdrum)	13·79	2·75	4·69	5·16	5·80	2·71	4·72	7·26	9·29	11·89	2·88	8·59	79·53
,,	18	Isle of Eigg	7·22	2·52	3·69	3·66	5·15	3·52	6·59	5·08	10·08	10·36	3·88	7·95	69·70
,,	18	Skye (Kyleakin, Dunringell)	11·54	2·48	3·29	5·40	4·78	2·30	4·92	5·64	9·58	11·15	4·47	7·83	73·38
,,	18	Skye (Portree)	10·14	3·87	5·61	7·57	4·72	2·19	5·86	6·06	12·56	12·74	6·33	8·59	86·24
,,	18	Skye (Dunvegan)	8·14	2·25	3·51	7·48	3·81	3·12	5·47	6·44	9·79	8·88	5·86	6·42	71·17
,,	19	Barra (Skallary)	4·70	1·48	3·32	3·01	3·05	2·67	4·73	4·39	7·21	6·61	2·76	4·89	48·82
,,	19	N. Harris (Amhuinnsuidh Castle)	6·62	2·60	4·38	5·82	3·66	3·49	5·07	5·85	8·65	8·27	3·96	5·21	63·58
Ross & Cromarty	1	Glenmoriston (Cluanie Inn)	20·03	7·86	6·26	9·13	8·64	3·10	6·00	11·16	14·26	21·74	5·55	11·59	125·32
,,	4	Dingwall (The Academy)	3·44	1·37	3·51	4·09	2·13	2·03	4·60	2·89	1·61	4·60	·98	2·28	33·53
,,	4	Alness (Ardross Castle)	3·79	2·07	4·88	6·49	2·81	2·43	7·14	3·24	2·31	6·16	1·79	3·56	46·67
,,	7	Braemore (Loch a' Bhraoin)	8·40	7·10	6·09	7·05	6·70	2·40	6·00	7·50	9·50	10·12	6·40	5·12	82·38
,,	7	Ullapool	7·02	3·04	3·47	5·21	2·41	1·55	4·94	4·11	3·61	8·37	3·21	3·17	50·11
,,	8	Poolewe (Inverewe Gardens)	11·84	3·78	3·38	4·50	3·24	1·89	5·59	4·58	6·18	9·83	4·37	4·19	63·37
,,	9	Loch Carron (Dunhulladale)	10·07	6·95	4·55	4·76	6·96	3·20	6·37	8·34	7·45	14·91	4·76	7·39	85·71
,,	9	Achnashellach	10·73	6·32	5·05	6·82	7·07	3·65	5·92	8·35	7·05	13·72	4·67	7·80	87·15
,,	10	Stornoway (Coastguard Stn.)	6·40	2·59	3·02	3·73	2·61	1·89	5·21	4·71	5·51	6·65	2·35	3·49	48·16
Sutherlandshire	1	Skibo Castle Gardens	1·89	2·44	1·86	3·50	2·19	2·00	5·83	3·02	1·45	5·05	1·15	2·24	32·62
,,	1	Lairg	3·74	3·46	2·75	4·96	2·42	1·52	4·59	4·08	1·71	7·70	1·72	3·45	42·10
,,	4	Skerray (Borgie)	3·70	4·18	3·18	6·17	2·98	1·31	4·97	5·84	2·25	7·69	2·85	2·84	47·96
,,	4	Tongue	3·17	3·00	3·13	6·61	2·56	1·78	4·65	4·95	2·26	6·30	2·89	2·95	44·25
,,	4	Melvich	2·65	2·82	3·87	6·29	2·75	1·86	4·91	5·93	1·73	7·38	2·59	3·16	45·94
,,	5	Loch More (Achfary)	7·41	9·20	6·20	11·17	7·13	2·16	7·83	9·09	5·64	17·52	5·91	3·36	92·62
Caithness-shire	2	Wick (Coastguard Station)	1·84	1·66	2·10	5·29	1·76	1·06	2·30	4·09	2·30	4·89	2·01	2·50	31·80
,,	3	Thurso (Buckies)	2·40	2·77	3·68	5·95	2·83	1·49	4·21	5·25	2·43	5·89	2·81	4·06	43·77
Orkney		Kirkwall (Bignold Park)	3·73	3·64	2·51	3·05	2·05	1·17	3·74	4·03	3·98	6·37	2·83	3·85	40·95
Shetland		Lerwick Observatory	5·12	3·39	3·31	3·28	3·37	1·37	2·14	3·51	4·15	6·10	3·03	5·09	43·86

Table XX.—(*con.*) *Monthly Rainfall*—**IRELAND.**

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Co. Cork	4	Garinish Island	9·20	·39	6·14	3·88	3·63	3·03	3·03	3·39	8·10	7·20	3·38	12·16	63·53
,,	6	Castletownshend (Seafield)	4·46	·17	5·56	2·65	3·07	2·63	2·43	2·48	6·21	3·71	2·82	9·17	45·36
,,	6	Dunmanway (The Rectory)	7·63	·25	7·06	4·27	4·06	2·75	3·75	3·59	9·10	6·22	3·00	12·02	63·70
,,	7	Cork (University College)	4·67	·32	4·67	3·52	1·98	1·63	2·20	3·31	5·98	3·50	1·33	8·92	42·03
,,	9	Mallow (Longueville)	4·30	·33	3·70	4·70	2·34	1·71	1·95	2·82	6·06	4·26	1·87	8·33	42·37
,,	9	Kanturk (Castlecor)	3·71	·38	3·86	3·62	1·98	1·77	2·12	3·65	4·95	3·89	1·51	6·79	38·23
Co. Kerry	3	Valentia Observatory	6·74	·74	5·59	3·65	2·26	2·45	2·73	5·43	8·06	7·03	3·76	13·60	62·04
,,	3	Killarney (Flesk Mills)	7·07	·34	5·24	5·05	2·44	1·65	2·77	5·80	10·48	6·21	2·82	13·22	63·09
,,	3	Killorglin (Callinafercy)	5·49	·37	4·78	2·74	1·92	2·06	1·89	4·65	6·76	5·46	2·31	9·30	47·73
,,	3	Bally McElligott Rectory	5·22	·61	3·52	3·16	1·93	1·59	2·86	4·32	6·04	4·47	2·61	7·87	44·20
,,	4	Darrynane Abbey	4·88	1·00	6·31	3·40	2·15	3·00	2·94	3·99	5·82	4·50	3·75	9·38	51·12
,,	4	Kenmare (Dromore Castle)	7·72	·69	7·83	5·17	3·98	2·83	4·78	4·93	9·73	7·34	3·24	11·51	69·75
Co. Waterford	3	Waterford (Gortmore)	3·52	·29	3·21	3·36	2·83	1·42	·73	4·53	6·09	3·29	1·24	8·58	39·09
,,	3	Carrick-on-Suir (Seskin)	4·66	·28	3·78	4·60	2·71	2·51	1·17	5·54	7·58	4·13	1·33	9·67	47·96
Co. Tipperary	1	Nenagh (Traverston)	6·82	·41	4·11	2·23	2·47	1·56	1·58	4·72	5·76	4·40	2·22	8·27	44·55
,,	1	Nenagh (Castle Lough)	5·71	·39	3·54	2·36	2·40	2·06	2·13	5·08	5·82	4·68	1·79	7·04	43·00
,,	3	Cahir (Abbey)	3·51	·36	3·83	3·67	2·07	1·89	1·14	3·76	5·49	3·01	1·10	6·77	36·60
,,	3	Cashel (Ballinamona)	3·93	·27	3·16	3·47	1·87	1·46	1·78	3·37	5·70	3·27	1·04	5·87	35·19
,,	4	Roscrea (Timoney Park)	3·71	·20	4·34	1·39	1·15	1·67	3·06	4·76	6·05	3·60	1·36	6·53	37·82
Co. Limerick	2	Abbeyfeale (Springmount School)	4·11	·40	4·18	2·65	1·45	1·54	2·66	5·66	4·44	5·09	1·55	6·55	40·28
,,	2	Knocklong (Kilfrush)	3·74	·25	2·83	3·97	2·13	1·32	1·76	3·76	4·55	3·49	1·71	5·40	34·91
,,	2	Ballingarry Presbytery	3·53	·25	3·07	2·39	1·78	1·94	1·73	3·56	4·79	3·18	1·74	5·11	33·07
,,	2	Foynes (Coolnanes)	5·03	·30	3·26	1·85	2·00	1·69	2·08	4·20	4·41	4·05	2·17	5·86	36·90
,,	2	Limerick (Mulgrave Street)	4·38	·41	3·32	2·18	2·10	1·50	2·22	3·89	5·01	3·80	2·58	5·97	37·36
Co. Clare	2	Inagh (Mount Callan)	8·21	·73	5·75	2·33	4·01	3·10	5·26	7·07	7·75	8·35	4·01	9·55	66·12
,,	3	Bro dford (Hu dl stown)	6·67	·26	3·81	2·13	2·26	2·59	2·62	4·01	5·91	3·70	1·93	5·15	41·04
Co. Wexford	2	Foulks Mill (Longraigue)	3·37	·28	3·36	3·32	3·44	1·59	·83	3·78	6·43	4·08	1·36	8·76	40·60
,,	3	Enniscorthy (Woodbrook)	6·27	·14	4·73	5·06	3·01	1·86	1·17	6·08	7·29	4·96	2·18	11·07	53·82
,,	4	Gorey (Courtown House)	3·71	·44	3·72	3·02	2·44	2·03	1·70	2·85	5·08	4·19	2·17	9·18	40·53
Co. Kilkenny	2	Castlecomer House	3·07	·17	3·48	2·59	1·95	1·92	1·17	5·98	7·25	3·12	1·39	7·55	39·64

Table XX.—(*con.*) *Monthly Rainfall*—**IRELAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Co. Wicklow ...	4	Newcastle (Killadreenan)	3·91	·01	3·00	3·18	2·43	2·00	·69	4·47	5·16	3·22	4·10	9·08	41·25
,, ...	5	Blessington Rectory	3·28	·28	2·49	2·69	2·17	2·15	1·42	4·34	5·05	3·58	2·53	5·42	35·40
Co. Carlow	2	Bagnalstown (Fenagh House)	2·91	·13	2·73	2·61	1·91	1·34	·84	3·88	4·67	2·80	1·50	7·43	32·75
,, ...	3	Hacketstown Rectory	2·97	12	3·14	3·57	2·53	1·64	1·42	5·01	5·91	3·16	1·96	7·80	39·23
Co. Leix	2	Abbey Leix (Blandsfort)	3·22	·17	3·05	2·00	1·78	1·57	·74	4·64	6·01	3·29	1·41	7·40	35·28
,, ...	3	Mountmellick (Summer Grove)	5·00	·14	3·31	2·21	1·62	1·59	1·13	5·16	6·89	3·79	1·30	6·89	39·03
Co. Offaly	1	Birr Castle	4·44	·17	2·91	1·89	2·00	1·93	1·80	4·58	5·02	3·47	1·34	5·14	34·69
,, ..	1	Ferbane (Turraun Peat Works)	4·28	·11	2·49	·98	1·92	1·37	1·47	4·10	5·21	2·97	1·14	4·07	30·11
,, ..	1	Ballycumber (Bellair House)	4·75	·21	2·62	1·07	1·94	1·72	1·59	4·70	5·01	3·54	1·58	4·12	32·85
Co. Kildare	2	Straffan House	3·79	·33	1·96	2·28	1·60	1·81	1·17	4·12	4·67	2·66	1·31	5·02	30·72
Co. Dublin	2	Howth Castle	1·94	·04	1·75	1·79	1·71	1·56	1·03	2·97	3·01	2·60	2·38	6·09	26·87
,, ...	3	Balbriggan (Ardgillan)	3·05	·09	2·19	1·73	1·51	1·50	·59	3·08	3·60	2·77	1·76	5·86	27·73
Co. Meath	2	Dunboyne (Stirling, Clonee)	2·81	·06	2·42	1·93	1·45	1·48	1·40	3·99	3·63	2·57	1·48	5·18	28·40
,, ...	4	Summerhill House	3·64	·15	2·38	1·88	1·71	1·43	1·06	3·49	4·26	2·81	1·29	5·75	29·85
,, ...	4	Kells (Headfort)	3·90	·11	2·38	2·30	2·17	1·57	·78	3·73	4·65	3·39	1·21	5·75	31·94
Co. Westmeath .	1	Mullingar (Belvedere House)	4·61	·19	3·43	1·95	2·11	2·07	2·09	4·01	6·06	4·48	1·45	6·84	39·29
,, ..	1	Castlepollard (Pakenham Hall)	4·07	·22	2·99	1·71	2·08	1·50	1·25	4·85	7·52	4·59	1·59	5·57	37·94
Co. Louth	2	Dundalk (Ravensdale)	3·16	·25	2·96	2·06	2·83	1·56	1·57	4·31	5·77	3·46	1·65	6·80	36·38
Co. Longford ...	2	Ballymahon (New Castle)	4·89	·12	2·80	2·14	2·39	2·68	2·60	4·81	5·83	4·95	1·67	5·23	40·11
,, ...	2	Newtownforbes (Cas. Forbes Gdns.)	5·43	·29	2·83	2·37	2·69	2·06	1·53	5·88	5·92	5·30	1·55	5·48	41·33
Co. Galway	3	Galway (Grammar School)	4·95	·26	3·69	1·86	3·50	2·53	(3·00)	(4·00)	5·07	4·81	·88	5·51	40·06
,, ...	3	Ballynahinch Castle	8·29	·56	6·24	2·71	3·94	3·48	5·15	5·95	10·19	9·16	4·01	9·94	69·62
,, ...	3	Tuam Palace Gardens	6·08	·38	3·35	1·73	2·65	2·49	2·21	4·54	5·81	5·77	1·95	7·08	44·04
,, ...	5	Portumna	4·34	·18	3·03	1·33	1·71	2·42	1·36	3·47	4·66	3·52	1·61	4·78	32·41
,, ...	5	Ahascragh (Clonbrock)	5·46	·18	3·50	1·78	2·81	2·50	1·58	5·92	5·86	5·29	1·61	6·48	42·97
Co Roscommon	4	Strokestown (Castlenode)	4·90	·20	3·31	2·65	2·28	1·52	1·81	4·86	6·86	4·80	1·52	5·48	40·19
Co Mayo	2	Castlebar Rectory	7·20	·80	4·83	3·32	3·11	2·06	3·50	5·34	7·38	7·71	2·44	6·23	53·92
,, ...	2	Ballina (The Rectory)	6·38	·97	4·15	4·77	2·97	2·46	4·69	3·79	8·87	8·65	1·67	5·54	54·91
,, ...	3	Blacksod Point	7·31	1·09	4·83	2·82	3·74	1·78	4·16	3·66	7·24	7·87	3·54	(8·82)	56·86
,, ...	4	Mallaranny	7·13	1·25	5·07	3·69	4·62	3·44	5·02	5·77	8·09	9·66	4·02	8·51	66·27
,, ...	5	Aasleagh House	16·71	1·31	10·80	5·75	5·66	3·75	8·05	9·81	15·21	17·92	5·76	19·58	120·31
,, ...	5	Delphi Lodge	13·48	1·66	9·83	6·20	7·31	4·33	8·66	10·82	14·32	15·93	6·39	17·36	116·29

Table XX.—(*con.*) *Monthly Rainfall*—**IRELAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Co. Sligo.....	2	Collooney (Markree Obsy.).....	4·63	·63	4·14	2·78	3·07	1·91	2·42	6·37	6·58	6·22	1·82	5·53	46·10
,, ...	2	Sligo (Ard-na-veagh)	4·68	·48	3·59	2·47	3·85	2·20	2·86	7·22	6·00	6·54	1·53	4·17	45·59
Co. Leitrim	5	Cloone.....	4·91	·23	3·16	2·55	3·04	2·43	1·75	4·82	7·71	4·78	1·34	5·31	42·03
Co. Cavan	1	Crossdoney (Kevit Castle).....	4·65	·22	2·23	2·68	3·02	1·90	2·20	5·01	6·48	5·09	1:32	6·37	41·17
Co. Fermanagh .	1	Newtownbutler (Crom Castle)	4·14	·44	2·50	2·35	3·07	1·50	1·47	4·47	5·83	4·70	1·25	5·33	37·05
,, ..	1	Enniskillen (Portora School).....	3·37	·30	2·24	2·33	2·80	1·83	1·85	4·24	6·07	4·63	·91	4·13	34·70
,, ..	1	Belleek (Heronshaw).....	5·21	·65	3·79	2·65	3·74	1·78	4·00	7·04	6·51	7·10	1·50	4·93	48·90
Co. Armagh....	3	Lurgan (Belle Vue).....	2·40	·16	1·43	1·67	1·90	1·31	1·51	5·01	4·26	3·37	·67	4·37	28·06
,, ...	5	Armagh (Observatory)	2·89	·27	1·79	2·54	2·80	1·40	2·52	5·48	4·62	4·50	·69	4·80	34·30
Co. Down.....	1	Newry (Bridge Street House).....	3·81	·24	2·42	2·56	2·86	1·57	1·36	4·16	6·22	4·12	1·02	6·85	37·19
,, ...	2	Silent Valley (Belfast W.W.)	5·14	·28	3·18	3·31	3·65	2·29	2·06	8·10	7·93	5·84	3·48	10·84	56·10
,, ...	2	Seaforde.....	3·40	·07	1·77	2·29	3·25	1·18	2·05	4·99	6·93	5·32	1·82	8·50	41·57
,, ...	4	Donaghadee(Coastguard Station)..	2·77	·22	1·63	2·95	3·00	1·42	1·56	4·72	5·55	4·31	·98	7·36	36·47
Co. Antrim.....	1	Belfast (Queen's University).....	2·74	·30	2·42	3·07	2·89	1·96	2·63	5·99	4·62	4·32	1·10	7·43	39·47
,, ...	2	Larne (Sallagh Springs).....	4·38	·51	2·78	4·81	4·37	2·03	2·36	5·30	6·09	5·89	2·02	8·46	49·00
,, ...	3	Ballycastle (Magherintemple)	4·20	·44	3·53	3·27	3·36	2·36	2·65	5·53	4·27	6·88	1·58	6·94	45·01
,, ...	5	Aldergrove (Aerodome)	2·72	·29	2·06	2·49	2·83	2·79	3·13	4·46	5·65	3·93	·71	5·19	36·25
,, ...	5	Ballymena (Harryville)	3·83	·58	2·70	3·37	4·11	2·43	2·35	5·42	6·17	5·53	1·64	5·80	43·93
Co. Londonderry	1	Londonderry (Dunruadh).....	4·27	·67	2·80	3·43	3·14	2·50	3·14	5·01	5·40	7·12	1·17	3·51	42·16
,, ...	3	Garvagh (Moneydig)	3·77	·57	2·29	3·11	2·96	2·02	3·10	5·26	6·13	5·74	1·39	4·70	41·04
,, ...	5	Glenedra Lodge.....	7·32	·75	3·37	5·41	5·39	3·44	4·28	7·22	9·92	8·49	1·96	8·56	66·11
,, ...	5	Bellarena	3·12	·64	3·32	3·02	2·54	2·66	2·03	4·33	4·93	5·55	1·67	2·74	36·55
Co. Tyrone.....	2	Castlecaulfield (Parkanaur).....	4·21	·29	2·52	3·11	3·89	2·10	2·54	6·42	6·85	6·30	·88	6·12	45·23
,, ...	3	Omagh (Edenfel).....	5·14	·53	3·26	2·43	3·75	1·80	2·26	4·76	6·74	5·73	1·45	5·31	43·16
,, ...	3	Sion Mills (Sion House).....	4·93	·70	3·01	3·05	3·38	2·41	2·43	4·70	5·85	6·77	1·27	4·05	42·55
Co. Donegal....	1	Malin Head (C.Guard Stn.)	4·01	·39	3·81	2·58	2·54	4·13	2·84	4·89	6·43	6·60	1·51	4·64	44·37
,, ...	2	Buncrana Rectory.....	4·25	·74	3·40	2·86	2·56	2·48	2·83	5·23	6·16	7·12	1·68	3·87	43·18
,, ...	3	Dunfanaghy (St. Patrick's).....	5·23	·81	3·14	1·76	2·56	1·92	3·78	4·68	6·75	6·71	1·64	5·63	44·61

Table XXI.—*Monthly Rainfall in* 1934; *the Average,* 1881–1915, *being taken as* 100.

County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
London..... 2	St. Pancras (Camden Square).....	73	12	107	145	26	56	39	88	153	41	78	201	85
Kent..... 1	Tenterden (Ashenden).....	122	8	138	159	39	110	62	74	69	66	90	243	102
,, ... 2	Margate (Cliftonville)	87	7	148	96	95	40	39	99	50	58	72	143	78
,, ... 4	Edenbridge (Falconhurst)	123	5	111	151	41	96	82	61	80	73	115	225	101
Sussex..... 1	Compton (Compton House).....	84	2	116	117	30	77	53	119	110	51	96	280	101
,, ... 5	Eastbourne (Wilmington Square)..	119	2	130	132	30	79	47	131	65	71	128	245	105
Hampshire..... 1	Ventnor (Royal National Hosp.)...	109	2	135	146	46	68	17	88	116	58	138	252	104
,, ... 3	Fordingbridge (Oaklands)	105	2	147	123	45	55	66	142	125	44	71	278	106
,, ... 8	Sherborne St. John.....	100	3	111	98	42	71	110	114	79	37	66	260	95
Hertfordshire.... 3	Royston (Therfield Rectory).....	88	30	98	122	33	81	81	84	69	58	87	158	83
Buckinghamshire 3	Slough (Upton)	79	8	122	107	23	54	79	125	80	56	94	221	91
Oxfordshire..... 3	Oxford (Magdalen College).....	94	15	106	126	39	69	48	74	124	49	71	227	87
Northamptonshire 4	Wellingborough (Swanspool)	71	29	87	97	38	45	44	64	98	56	96	179	76
Cambridgeshire.. 2	March	53	47	85	169	27	44	71	61	80	52	66	153	74
Essex 4	Chelmsford (County Laboratory)..	89	13	121	161	35	71	87	67	55	58	72	178	84
Suffolk 3	Rendlesham Hall.....	82	28	137	154	120	45	84	118	81	52	81	168	95
,, ... 4	Lowestoft (Secondary School).....	77	29	98	133	76	86	77	77	86	53	62	129	81
,, ... 5	Bury St. Edmunds (Westley H.) ..	79	21	114	172	41	76	42	67	77	51	54	153	78
Norfolk..... 1	Sprowston (Oak Lodge)	83	44	74	147	122	108	46	88	101	51	75	149	88
,, ... 3	Wells (Holkham Hall)	126	49	112	191	109	43	44	66	78	54	80	163	87
Wiltshire 1	Calne (Castleway)	93	6	104	118	47	50	57	82	134	65	58	228	90
Dorsetshire 3	Weymouth (Westham).....	103	1	118	98	42	65	7	117	123	51	69	265	96
South Devonshire 5	Teignmouth (Den Gardens)	99	7	110	161	52	64	17	144	117	63	72	271	104
,, 6	Cullompton	81	15	99	151	77	90	73	98	136	71	43	284	107
North Devonshire 2	Barnstaple (N. Dev. Athenæum)...	116	13	102	115	74	69	14	116	123	83	71	189	95
,, 3	Okehampton (Uplands).....	134	6	100	132	121	100	43	116	145	95	48	225	110
Cornwall..... 2	Penzance (Morrab Gardens).....	123	6	143	163	75	81	21	98	116	66	64	188	99
,, ... 2	St. Austell (Trevarna).....	107	8	131	129	72	73	19	146	133	90	42	214	102
Somersetshire ... 1	Litton (Sherborne Res.)	109	18	104	116	64	70	38	110	170	64	50	218	98
Gloucestershire.. 7	Cirencester (Gwynfa)	116	12	95	102	48	77	87	74	145	62	51	197	91
Shropshire..... 3	Church Stretton (Woolstaston)	174	15	106	143	83	72	67	95	127	82	94	160	102
Staffordshire 2	Market Drayton (Old Springs).....	96	24	77	127	47	30	46	72	89	99	88	156	81

Table XXI.—*Monthly Rainfall in* 1934; *the Average,* 1881–1915, *being taken as* 100 (*con.*)

County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Worcestershire .. 1	Malvern (Free Library).....	123	25	111	173	53	41	45	79	104	49	74	218	91
Warwickshire ... 1	Alcester (Ragley Hall)	95	27	76	173	45	46	46	78	102	44	79	192	83
,, .. 4	Birmingham (Edgbaston).....	155	17	107	126	43	44	43	85	116	59	87	171	88
Leicestershire ... 4	Grantham (Belvoir Castle Gdns.) ..	115	31	103	157	34	38	114	74	68	40	94	162	85
Lincolnshire..... 3	Boston (Black Sluice, Skirbeck) ...	99	36	120	133	45	32	59	87	70	43	99	159	80
,, ... 4	Louth (Westgate)	81	59	109	135	59	85	65	81	75	42	90	142	84
Nottinghamshire 5	Worksop (Hodsock)	83	61	155	162	51	61	81	51	90	49	111	162	91
Derbyshire..... 6	Derby (L.M. & S. Rly.).....	120	26	91	131	40	21	41	98	121	59	94	167	85
S. Lancashire.... 3	Manchester (Whitworth Park).....	84	17	98	90	90	77	65	88	105	139	53	149	91
C. ,, .. 1	Stonyhurst (College).....	102	9	67	81	150	86	56	108	110	180	50	123	95
C. ,, ... 3	Southport (Hesketh Park)	100	5	77	116	146	82	45	95	110	123	90	140	96
N. ,, ... 1	Ulverston (Poaka Beck).....	146	11	85	124	134	93	38	131	150	123	44	150	103
Yorkshire, W.R.. 8	Wakefield (Clarence Park)	72	20	95	141	46	69	69	35	114	56	100	169	81
,, E.R... 3	Hull (Pearson Park)	78	109	97	124	42	59	50	86	97	52	93	146	84
,, N.R... 1	West Witton (Ivy House)	87	4	155	180	89	75	48	75	106	131	63	147	98
,, ,,... 2	Felixkirk (Mount St. John)	92	84	125	156	45	68	127	93	105	96	89	220	109
,, ,, .. 3	York (Museum Gardens)	94	111	116	149	50	102	60	56	88	50	80	205	94
,, ,,... 5	Scarborough.....	63	111	111	153	58	64	74	87	92	73	118	165	96
,, ,,... 6	Middlesbrough (Albert Park).....	52	58	91	175	34	124	61	82	104	88	97	169	93
Northumberland. 3	Newcastle (Leazes Park)	86	24	146	192	63	109	97	113	62	122	151	158	118
,, . 4	Bellingham (Highgreen)	133	6	153	181	72	107	108	120	96	153	61	123	111
,, . 6	Ilderton (Lilburn Tower Gdns.)....	81	27	164	263	70	124	62	127	63	144	122	184	121
Cumberland..... 1	Carlisle (Scaleby Hall)	167	7	93	135	117	146	82	100	150	139	17	135	107
,, ... 2	Keswick (Derwent Island)	184	5	71	118	151	90	45	125	169	154	18	134	106
Westmorland.... 1	Appleby (Castle Bank)	144	6	87	139	141	77	53	107	131	172	22	137	101
Monmouthshire.. 3	Abergavenny (Larchfield).....	141	9	108	122	61	48	87	114	86	69	53	230	99
Glamorganshire.. 3	Ystalyfera (Wern House)	148	15	102	119	117	88	27	81	175	97	32	218	105
,, .. 5	Cardiff (Ely Pumping Station)	91	20	69	108	63	63	36	89	119	69	41	218	88
Carmarthenshire. 2	Carmarthen (Model & Prac. Sch.)..	138	19	109	137	100	74	9	89	164	84	46	238	104
Pembrokeshire .. 4	Pembroke (Stacpole Court)	109	16	76	121	79	73	38	140	96	70	45	193	94
Radnorshire..... 1	Birmingham W.W. (Tyrmyndd)...	113	8	109	128	90	65	62	131	119	100	36	179	99
Montgomeryshire 4	Newtown (Penarth Weir)	137	13	111	191	95	66	68	85	62	84	69	142	96

Table XXI.—*Monthly Rainfall in* 1934; *the Average,* 1881–1915, *being taken as* 100 (*con.*)

County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Montgomeryshire 5	Lake Vyrnwy	141	8	130	126	129	98	35	104	146	129	49	156	106
Flintshire 1	Sealand (Aerodrome)	65	10	93	125	76	40	29	68	66	93	107	174	81
Merionethshire 3	Blaenau Festiniog (Oakley Q.)	122	15	84	94	183	113	33	118	130	194	41	139	106
,, 4	Dolgelley (Bontddu)	101	18	111	121	179	67	47	156	115	180	34	137	107
Carnarvonshire 2	Llandudno (Cricket Ground)	105	14	94	90	178	68	39	105	83	117	57	144	93
Anglesey	Holyhead (Salt Island)	121	11	76	60	200	73	17	92	142	123	67	230	106
Isle of Man	Douglas (Borough Cemetery)	145	8	99	114	133	119	15	88	140	130	59	226	110
Channel Islands	Guernsey, St. Peter Port (Grange Rd.)	122	4	177	113	83	92	4	134	125	74	127	242	116
Wigtownshire 3	Port William (Monreith)	131	14	95	134	168	76	92	120	172	152	46	211	119
Kirkcudbrightshire 3	Dalry (Glendarroch)	153	11	63	113	125	80	81	103	175	151	20	159	103
,, 4	Auchencairn (Torr House)	185	13	73	146	143	107	59	139	169	128	27	159	113
Dumfriesshire 3	Dumfries (Crichton Roy. Inst.)	156	9	81	149	104	82	69	174	247	131	17	159	115
Roxburghshire 3	Hawick (Wolfelee)	118	7	111	186	111	96	100	139	110	167	50	114	108
Peebleshire 2	Stobo Castle	124	8	140	167	139	88	97	101	116	162	52	127	109
Berwickshire 4	Marchmont House	68	9	162	236	74	124	63	98	109	110	97	145	107
East Lothian 5	North Berwick Reservoir	74	3	169	203	72	115	104	94	80	83	92	153	102
Midlothianshire 5	West Calder (Addiewell)	144	14	100	167	79	116	105	99	108	151	44	88	99
,, 5	Edinburgh (Blackford Hill)	111	5	138	276	60	123	100	102	82	119	42	107	103
Ayrshire 8	Girvan (Pinmore)	133	20	76	101	166	74	68	111	168	131	26	163	104
,, 13	Glen Afton (Ayr Sanatorium)	184	18	89	152	145	104	69	120	176	182	24	157	118
Renfrewshire 3	Shaws W.W. (Loch Thom)	175	26	77	138	132	115	81	113	148	196	64	160	120
Argyllshire 2	Loch Sunart (Glenborrodale)	120	40	62	102	125	127	114	108	188	190	21	98	106
,, 8	Lochgilphead (Poltalloch)	139	35	104	118	166	97	94	101	194	217	38	130	119
,, 11	Inveraray Castle Gardens	185	47	85	124	165	86	88	102	170	193	38	114	116
,, 14	Islay (Eallabus)	128	20	89	110	131	93	89	91	147	207	48	114	106
Kinross-shire 2	Loch Leven Sluice	116	3	146	287	89	112	127	116	117	121	28	119	110
Fifeshire 3	Leuchars (Aerodrome)	75	7	145	290	115	95	121	99	125	90	32	126	107
Perthshire 1	Loch Dhu	167	23	71	140	96	68	68	93	183	187	20	142	106
,, 7	Crieff (Strathearn Hydro)	140	5	100	199	83	58	91	100	186	137	17	171	105
,, 14	Blair Atholl (Blair Castle Gdns.)	133	19	65	96	137	51	133	126	214	182	8	168	112
Angus 4	Montrose (Sunnyside Asylum)	67	9	98	347	92	43	92	108	152	114	47	154	109
Aberdeenshire 1	Balmoral Castle Gdns.	91	42	99	237	150	99	149	136	88	122	69	187	121
,, 2	Aberdeen Observatory	79	32	45	329	148	70	61	160	131	116	82	130	113

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County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Aberdeenshire ... 4	New Deer Schoolhouse	86	73	67	258	111	61	46	163	106	122	97	156	112
Morayshire..... 2	Fochabers (Gordon Castle)	49	67	86	232	121	108	95	113	57	124	60	78	97
,, ... 3	Grantown-on-Spey	102	44	106	177	116	83	146	94	50	161	58	104	104
Nairnshire 2	Nairn (Golf Course)	88	30	130	272	110	70	151	73	53	107	32	91	97
Inverness-shire .. 3	Alvie Manse	148	32	138	285	124	56	155	75	71	170	44	81	111
,, .. 6	Loch Ness (Foyers).....	149	32	137	276	120	88	117	67	106	172	24	70	108
,, .. 7	Loch Quoich (Glenquoich)	155	64	51	104	167	75	85	127	161	206	53	78	109
,, ..13	Arisaig House.....	106	53	69	89	159	137	129	107	168	187	52	94	111
,, ..17	Glenleven (Corrour)	157	54	79	157	106	41	98	116	193	252	32	110	117
Ross and Cromarty 4	Alness (Ardross Castle).....	100	63	150	268	108	108	236	110	79	160	45	86	121
,, 7	Ullapool	153	71	83	168	94	66	156	116	96	173	60	50	104
,, 9	Achnashellach.....	112	87	70	121	158	92	115	125	97	171	51	78	103
,, 10	Stornoway (C. Guard Station)	124	58	74	123	102	81	172	119	139	128	40	56	97
Sutherlandshire.. 1	Lairg.....	114	112	89	215	94	73	147	129	60	206	43	86	113
,, .. 4	Tongue	80	86	93	252	108	87	152	155	72	150	63	60	108
,, .. 5	Loch More (Achfary).....	102	139	96	230	162	59	146	156	98	225	69	36	122
Caithness-shire .. 2	Wick (C. Guard Station)	75	73	93	265	85	59	87	149	92	165	64	81	106
Shetland	Baltasound (Halligarth)	118	97	106	110	150	103	90	58	131	169	89	76	107
Co. Cork..... 6	Dunmanway (The Rectory).....	122	4	144	103	119	79	96	76	222	104	48	149	104
,, ,, ... 7	Cork (University College)	116	9	150	134	88	64	81	98	223	90	33	174	105
,, ,, ... 9	Mallow (Longueville).....	110	10	128	193	105	78	78	91	253	118	50	170	114
,, Kerry..... 3	Valentia Observatory	123	14	123	99	71	77	72	113	195	126	69	205	111
,, ,, ... 3	Gap of Dunloe (Gearhameen)	153	8	107	111	84	56	83	95	195	132	51	150	105
,, Waterford... 3	Waterford (Gortmore)	97	9	118	134	123	54	23	120	223	84	33	187	100
,, Tipperary ... 1	Nenagh (Castle Lough).....	144	13	115	94	97	84	68	129	207	138	45	153	109
,, ,, ... 3	Cashel (Ballinamona)	103	8	115	139	78	63	61	95	233	91	30	135	94
,, Limerick.... 2	Foynes (Coolnanes)	133	9	111	76	86	65	67	119	158	109	54	124	94
,, Wexford 4	Gorey (Courtown House).....	119	16	161	138	110	84	58	86	206	118	62	240	117
,, Carlow 2	Bagnalstown (Fenagh House)	93	5	112	114	78	54	27	110	189	84	45	197	94
,, ,, ... 3	Hacketstown Rectory	84	4	112	135	97	59	41	124	211	83	50	190	99
,, Leix..... 2	Abbey Leix (Blandsfort).....	98	6	116	77	73	61	24	117	221	93	42	201	97

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County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Co. Offaly 1	Birr Castle	157	7	121	88	90	83	61	120	219	119	43	156	107
,, Kildare 2	Straffan House	147	15	84	115	72	80	41	109	209	94	42	164	98
,, Dublin 3	Balbriggan (Ardgillan) No. 1	133	5	109	87	73	75	22	90	176	103	61	203	96
,, Meath 4	Kells (Headfort)	124	4	87	92	80	59	25	90	175	101	36	151	86
,, Westmeath .. 1	Mullingar (Belvedere)	144	7	127	82	86	80	66	96	227	144	43	186	108
,, Longford 2	Newtownforbes (Cas. Forbes Gdns.)	163	10	96	99	104	80	49	144	206	163	43	138	110
,, Galway 3	Ballynahinch Castle	133	11	122	77	109	98	124	108	214	153	67	133	114
,, ,, ... 5	Ahascragh (Clonbrock)	141	6	105	70	101	89	45	141	190	145	40	138	103
,, Roscommon. 4	Strokestown (Castlenode)	157	8	120	120	95	65	65	128	253	157	45	146	115
,, Mayo 3	Blacksod Point	144	27	118	97	133	64	132	80	187	158	68	144	114
,, ,, ... 4	Westport House	141	24	133	86	87	59	107	129	235	171	43	138	115
,, ,, ... 5	Delphi Lodge	136	20	118	108	121	75	130	126	190	168	61	143	117
,, Sligo 2	Collooney (Markree Castle)	119	19	122	105	112	65	70	147	194	153	43	115	107
,, Fermanagh . 1	Newtownbutler (Crom. Castle)	124	15	81	92	110	55	42	108	209	145	36	129	96
,, Armagh 5	Armagh (Observatory)	115	12	76	121	118	55	87	151	188	165	24	153	108
,, Down 1	Newry (Bridge Street House)	113	8	79	95	113	58	44	109	234	120	28	165	98
,, ,, ... 2	Seaforde	108	2	61	87	124	43	64	133	252	149	48	206	109
,, ,, ... 4	Donaghadee (Coastguard Station) .	109	10	74	147	132	61	56	142	232	149	32	232	117
,, Antrim 5	Ballymena (Harryville)	103	18	86	128	144	84	69	127	198	150	41	131	106
,, Londonderry 5	Londonderry (Creggan Reservoir) ..	133	31	93	144	123	92	93	119	175	205	37	90	110
,, ,, 5	Bellarena	94	21	109	128	106	99	63	109	162	155	43	70	95
,, Tyrone 3	Omagh (Edenfel)	145	18	104	92	145	64	66	111	221	156	38	126	108
England	(general mean*, 57 stations)	**102**	**24**	**110**	**140**	**65**	**73**	**59**	**94**	**104**	**76**	**78**	**186**	..‡
Wales	(,, ,, 13 ,,)	**118**	**14**	**98**	**119**	**119**	**72**	**41**	**106**	**116**	**108**	**52**	**184**	..
England and Wales ..	(,, ,, 70 ,,)	**105**	**22**	**108**	**136**	**75**	**72**	**55**	**96**	**106**	**82**	**73**	**186**	..
Scotland	(,, ,, 43 ,,)	**121**	**39**	**98**	**190**	**121**	**87**	**108**	**114**	**130**	**158**	**47**	**117**	..
Ireland	(,, ,, 35 ,,)	**125**	**12**	**110**	**109**	**102**	**70**	**66**	**114**	**208**	**131**	**45**	**158**	..
British Isles †	(,, ,, 150 ,,)	**115**	**24**	**106**	**145**	**95**	**77**	**72**	**105**	**137**	**116**	**59**	**169**	..

*The "general" values given in the last six rows are obtained by taking the means of the percentage values for the stations.
† Including Isle of Man and St. Peter Port, Guernsey. ‡ See Table XXIII.

9. SEASONAL RAINFALL, 1933-34.

There are definite advantages in considering the rainfall of the winter and summer separately. One defect of the calendar year

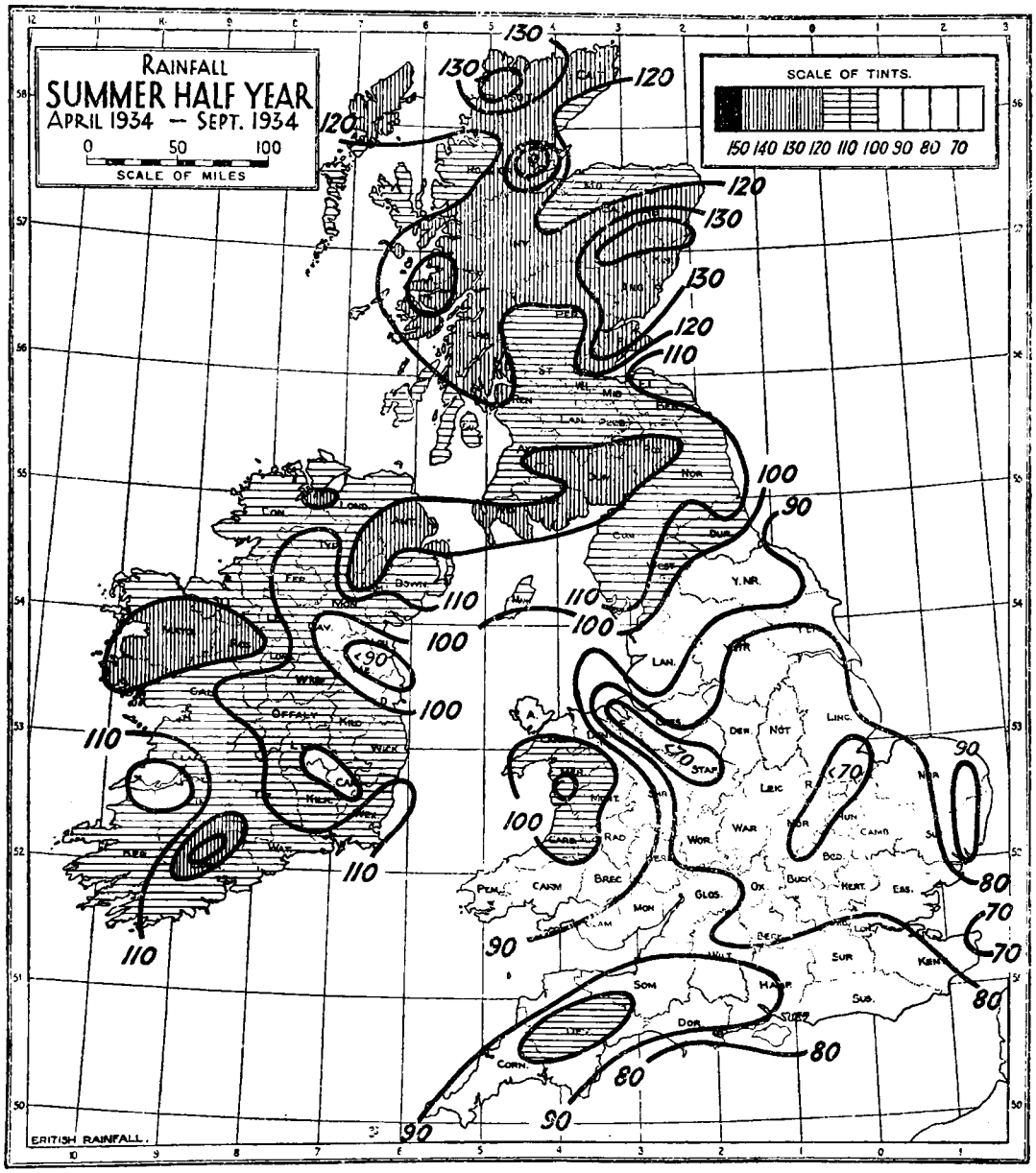


Rainfall, Winter Half-year, as per cent. of average.

as a unit of time for rainfall purposes is that part of a winter is included in one calendar year and the other part in another year.

Winter rainfall has a special economic importance, for, except in the wettest areas, the summer rainfall is, for the most part, lost by evaporation or absorbed by vegetation.

In this section the rainfall of the winter season, 1st October, 1933, to 31st March, 1934, and of the summer season, 1st April,



Rainfall, Summer Half-year, as per cent. of average.

1934, to 30th September, 1934, is dealt with, as well as the rainfall of the whole seasonal year, 1st October, 1933, to 30th September, 1934. It is natural to associate a summer season with the preceding rather than with the following winter season, since the water required in summer for replenishing streams and for the needs of animal and

vegetable life is derived, in part, from that which has been naturally stored during the previous winter season. One section of *British Rainfall* has been devoted to this subject since the volume for 1908, and three maps and Table XXII similar to those introduced in that volume, are now reproduced.



Rainfall, Seasonal Year, as per cent. of average.

Table XXII contains rainfall values for each of these two seasons for the stations shown in Section 8 on Monthly Rainfall. The values are expressed as percentages of the average fall for the season and the station. The table gives in the fourth column the corresponding percentages for each station for the whole of the seasonal year.

These last figures are not always the mean of the percentages for the two seasons, but often show a bias towards the winter value rather than that of the summer. This is due to the fact that the average rainfall for the winter is, in general, greater than that for the summer.

The *winter* half-year comprised three dry months, November and December, 1933, and February, 1934, with only 58, 35 and 24 per cent. of the respective averages over the country generally, while the remaining months gave either about or slightly more than the average. The general rainfall during the winter over the whole country was only 73 per cent., a deficiency of 27 per cent. The deficiency was greatest in Ireland, with 29 per cent. and least in Scotland with 23 per cent. The map shows that the rainfall of the winter half-year was less than the average in most districts. There was less than 70 per cent. over four large areas, the north-west of Scotland, the south-west of Ireland, the neighbourhood of the Irish Sea and the south of England. A large area to the north of the Isle of Wight received less than half the average. At Sherborne St. John, near Basingstoke, the total rainfall of 7·60 inches was 8·82 inches or 54 per cent. less than the average. At Compton House, near Petersfield, the total of 10·00 was 11·17 inches or 53 per cent. less than the average. The largest percentage values occurred along the east coasts of England and Scotland, the values at Newcastle and Felixkirk being 111 and 113 per cent. respectively. The general rainfall of the winter 1933 to 1934, over the British Isles, amounted to 16·8 inches, or 6·6 inches less than the average. This was less than that for any similar period since comparable statistics became available in 1870 with the one exception of the winter of 1879 to 1880 with only 13·9 inches.

The *summer* half-year comprised two wet months, *viz.*, April and September, two dry months, June and July, and two months, May and August, with a rainfall closely approximating to the average. The general rainfall over the whole country was four per cent. in excess of the average. Over England and Wales there was a deficiency of 11 per cent. but over Scotland and Ireland the excesses amounted to 23 and 12 per cent. respectively. Totals of less than 70 per cent. of the average were confined to the neighbourhood of the Cheshire Plain, of the Fen District and Margate. On the other hand there was more than 130 per cent. over a large area from Kinross to Aberdeen and smaller areas in the north-west of Scotland and in Co. Cork. The range was from 151 per cent. at Ardross Castle in Ross-shire to 62 per cent. at Wellingborough. At the former station the total rainfall of 24·42 inches was 8·24 inches in excess of the average, while at the latter the total of 7·42 inches was 4·58 inches less than the average. The large total recorded at Ardross Castle was due in part

to the wet period from July 12th to August 2nd when the 22 days gave as much as 7·92 inches. On the other hand at Wellingborough as little as 2·02 inches fell during the 53 days from May 7th to July 28th.

The general rainfall of the summer of 1934 over the British Isles amounted to 18·4 inches, or ·4 inch more than the average and as much as 4·6 inches more than in the corresponding period of 1933.

The map for the *seasonal year* shows that the rainfall was less than the average in most parts of the British Isles. There was less than 80 per cent. over most of southern and central England, as well as in the east of Wales and near Foynes, in Co. Limerick, and in Co. Meath. Over a large area to the south-east of a line drawn roughly from the Wash to the Severn Estuary, and also in the Cheshire Plain, the total rainfall was less than 70 per cent. of the average. At Wellingborough the total of 14·40 inches was 9·87 inches, or 41 per cent. less than the average. The large deficiency was due to the run of dry months both during the winter and summer. The largest percentage value occurred at Balmoral Castle, where the total of 39·38 inches was 6·34 inches or 19 per cent. in excess of the average. The large total was due more especially to the heavy rains of the summer half-year, in particular to the eleven days April 4th to 14th which gave 4·12 inches and May 6th, July 21st and August 28th with 1·32, 1·36 and 1·51 inches respectively. The general rainfall over the British Isles during the seasonal year was 35·2 inches or 6·2 inches less than the average. This total was less than that for any seasonal year since 1870—1871 with three exceptions, *viz.*, 1920—1921, 1904—1905 and 1892—1893 when the general values were only 33·9, 34·8 and 35·0 inches respectively.

In *British Rainfall*, 1926 p. 125, values are given for England and Wales, Scotland and Ireland separately back to 1906—1907. The rainfall of the winter 1933—1934 over England and Wales of 74 per cent. was less than that for any winter since that of 1908—1909, when the value was 73 per cent. The value for 1933—1934 for Scotland of 77 per cent. was less than that for any winter also since 1908—1909 when a similar value was recorded. In Ireland the value for 1933—1934 was less than that for any winter since before 1906—1907. The rainfall of the summer of 1934 appreciably exceeded that of 1933 in each country, and in the case of Scotland the value for 1934 was only exceeded on three occasions since 1907, *viz.*, in 1927, 1924 and 1923. For the seasonal year the rainfall over England and Wales, of 79 per cent., was less than that for any year back to 1906—1907 apart from 1920—1921 with 72 per cent. In Ireland, with 89 per cent. there were only two drier seasonal years, *viz.*, those of 1908—1909 and 1910—1911 with 88 and 84 per cent. respectively.

The most striking feature of the seasonal rainfall was the incidence of the abnormally dry winter of 1933—1934, immediately after the dry summer of 1933, when the general rainfall over the British Isles as a whole was less than that of any summer except those of 1921 and 1887. The total rainfall for the twelve months, April, 1933, to March, 1934 was 30·6 inches, a deficiency of 10·8 inches. The total rainfall was less than that of any similar period since before 1870. A comparison of the seasonal values for the British Isles for the last three years is given below :—

	Rainfall.			Percentage of Average, 1881 to 1915.		
	Winter. Oct.–Mar.	Summer. Apr.–Sept.	Seasonal Year. Oct.–Sept.	Winter. Oct.–Mar.	Summer. Apr.–Sept.	Seasonal Year. Oct.–Sept.
	in.	in.	in.	%	%	%
1931–1932	20·0	20·5	40·5	85	113	97
1932–1933	24·7	13·8	38·5	105	77	92
1933–1934	16·8	18·4	35·2	73	104	87

Table XXII.—*Seasonal Rainfall*, 1933–34, *in relation to the Average*, 1881–1915.

Station.‡	Winter 6 Months, Oct. 1933–Mar. 1934. Per cent. of Average.	Summer 6 Months, Apl. 1934–Sept. 1934. Per cent. of Average.	Twelve Months, Oct. 1933–Sept. 1934. Per cent. of Average.	Station.‡	Winter 6 Months, Oct. 1933–Mar. 1934. Per cent. of Average.	Summer 6 Months, Apl. 1934–Sept. 1934. Per cent. of Average.	Twelve Months, Oct. 1933–Sept. 1934. Per cent. of Average.
St. Pancras (Camden Square)....	50	81	65	St. Austell (Trevarna).....	81	97	87
Tenterden (Ashenden).....	59	84	69	Litton (Sherborne Res.).....	55	95	72
Margate (Cliftonville).....	66	68	67	Cirencester (Gwynfa).....	60	88	73
Edenbridge (Falconhurst)	54	84	67	Church Stretton (Woolstaston)..	82	96	89
Compton (Compton House).....	47	85	63	Market Drayton (Old Springs)...	74	65	70
Eastbourne (Wilmington Square).	63	82	71	Malvern (Free Library).....	75	79	77
Ventnor (Royal National Hosp.)..	60	81	68	Alcester (Ragley Hall).....	68	77	72
Fordingbridge (Oaklands).....	53	95	70	Birmingham (Edgbaston).....	88	73	81
Sherborne St. John.....	46	87	64	Grantham (Belvoir Cas. Gdns.)...	75	79	77
Royston (Therfield Rectory).....	61	77	69	Boston (Black Sluice, Skirbeck)..	88	69	79
Slough (Upton).....	53	79	65	Louth (Westgate).....	73	81	77
Oxford (Magdalen College).....	51	77	64	Worksop (Hodsock)	97	78	88
Wellingborough (Swanspool)	57	62	59	Derby (L.M.& S. Rly)	76	72	74
March	63	70	67	Manchester (Whitworth Park)...	68	84	76
Chelmsford (County Laboratory).	59	77	68	Stonyhurst (College)	60	98	77
Rendlesham Hall.....	85	97	91	Southport (Hesketh Park).....	63	96	79
Lowestoft (Secondary School)....	91	87	89	Ulverston (Poaka Beck).....	70	111	88
Bury St. Edmunds (Westley H.)..	68	74	71	Wakefield (Clarence Park).....	79	74	76
Sprowston (Oak Lodge).....	71	97	84	Hull (Pearson Park).....	103	74	89
Wells (Holkham Hall).....	94	80	87	West Witton (Ivy House).....	75	93	82
Calne (Castleway)	51	80	65	Felixkirk (Mount St. John).....	113	99	106
Weymouth (Westham).....	50	78	61	York (Museum Gardens).....	99	80	89
Teignmouth (Den Gardens).....	63	92	75	Scarborough.....	95	86	90
Cullompton.....	55	103	75	Middlesbrough (Albert Park)....	102	90	96
Barnstaple (N. Dev. Athenæum)..	70	86	77	Newcastle (Leazes Park).....	111	116	113
Okehampton (Uplands).....	69	110	84	Bellingham (Highgreen).....	81	113	96
Penzance (Morrab Gardens).....	80	93	85	Ilderton (Lilburn Tower Gardens)	107	114	110

‡ For Counties see Table XXI, pp. 117–121.

Table XXII.—*Seasonal Rainfall, 1933–34, in relation to the Average, 1881–1915—(con.).*

Station.‡	Winter 6 Months, Oct. 1933–Mar. 1934. Per cent. of Average.	Summer 6 Months, Apl. 1934–Sept. 1934. Per cent. of Average.	Twelve Months, Oct. 1933–Sept. 1934. Per cent. of Average.	Station.‡	Winter 6 Months, Oct. 1933–Mar. 1934. Per cent. of Average.	Summer 6 Months, Apl. 1934–Sept. 1934. Per cent. of Average.	Twelve Months, Oct. 1933–Sept. 1934. Per cent. of Average.
Carlisle (Scaleby Hall)	64	118	91	Girvan (Pinmore)	65	115	86
Keswick (Derwent Island)	65	118	87	Glen Afton (Ayr Sanatorium)	71	125	94
Appleby (Castle Bank)	79	104	90	Shaws W.W. (Loch Thom)	74	121	94
Abergavenny (Larchfield)	76	87	81	Loch Sunart (Glenborrodale)	75	131	97
Ystalyfera (Wern House)	81	98	88	Lochgilphead (Poltalloch)	79	129	100
Cardiff (Ely Pumping Station)	59	81	68	Inveraray Castle Gardens	86	123	101
Carmarthen (Model and Prac. Sch.)	81	94	86	Islay (Eallabus)	72	111	88
Pembroke (Stacpole Court)	86	94	89	Loch Leven Sluice	68	134	98
Birmingham W.W. (Tyrmyndd)	65	102	79	Leuchars (Aerodrome)	79	133	106
Newtown (Penarth Weir)	77	96	85	Loch Dhu	67	110	84
Lake Vyrnwy	72	106	85	Crieff (Strathearn Hydro)	70	116	90
Sealand (Aerodrome)	64	64	64	Blair Atholl (Blair Castle Gardens)	75	128	98
Blaenau Festiniog (Oakley Q.)	64	108	83	Montrose (Sunnyside Asylum)	81	134	107
Dolgelley (Bontddu)	72	116	91	Balmoral Castle Gardens	101	143	119
Llandudno (Cricket Ground)	71	92	80	Aberdeen Observatory	84	145	112
Holyhead (Salt Island)	66	95	78	New Deer Schoolhouse	101	120	110
Douglas (Borough Cemetery)	75	100	85	Fochabers (Gordon Castle)	85	114	100
Guernsey, St. Peter Port (Grange Rd)	80	95	85	Grantown-on-Spey	87	110	98
Port William (Monreith)	65	127	91	Nairn (Golf Course)	70	116	93
Dalry (Glendarroch)	60	114	81	Alvie Manse	92	120	105
Auchencairn (Torr House)	68	127	94	Loch Ness (Foyers)	88	124	103
Dumfries (Crichton Roy. Inst.)	61	138	96	Loch Quoich (Glenquoich)	70	123	89
Hawick (Wolfelee)	63	123	88	Arisaig House	74	133	100
Stobo Castle	74	115	92	Glenleven (Corrour)	72	124	91
Marchmont House	81	111	95	Alness (Ardross Castle)	89	151	115
North Berwick Reservoir	78	105	91	Ullapool	77	118	93
West Calder (Addiewell)	69	110	87	Achnashellach	71	117	89
Edinburgh (Blackford Hill)	73	114	94				

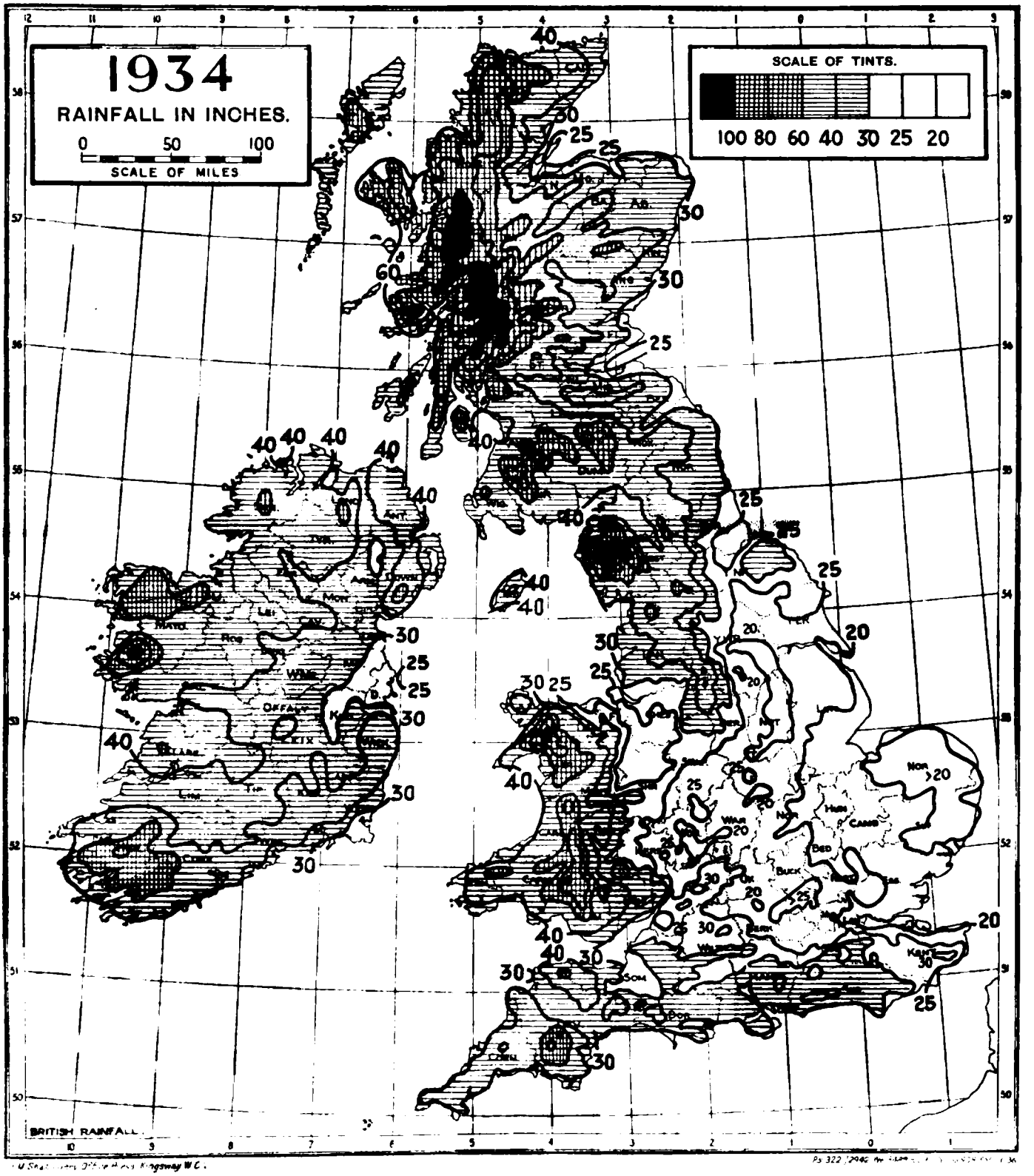
‡ For Counties see Table XXI, pp. 117–121.

Table XXII.—*Seasonal Rainfall*, 1933-1934, *in relation to the Average*, 1881-1915—(*con.*).

Station.‡	Winter 6 Months, Oct. 1933-Mar. 1934. Per cent. of Average.	Summer 6 Months, Apl. 1934-Sept. 1934. Per cent. of Average.	Twelve Months, Oct. 1933-Sept. 1934. Per cent. of Average.
Stornoway (C. Guard Station)...	65	125	88
Lairg	84	120	99
Tongue	75	139	100
Loch More (Achfary).....	90	144	111
Wick (C. Guard Station)	84	122	101
Baltasound (Halligarth).....	92	105	97
Dunmanway (The Rectory).....	63	116	84
Cork (University College).....	67	115	86
Mallow (Longueville).....	71	143	100
Valentia Observatory	70	108	85
Gap of Dunloe (Gearhameen)....	68	106	82
Waterford (Gortmore).....	68	111	87
Nenagh (Castle Lough).....	67	115	88
Cashel (Ballinamona)	58	110	80
Foynes (Coolnanes).....	61	95	75
Gorey (Courtown House).....	79	110	93
Bagnalstown (Fenagh House)....	71	93	81
Hacketstown Rectory.....	73	109	90
Abbey Leix (Blandsfort).....	72	96	84
Birr Castle.....	76	109	92
Straffan House.....	77	102	89
Balbriggan (Ardgillan) No. 1.....	80	84	82
Kells (Headfort).....	68	85	76
Mullingar (Belvedere).....	79	105	91
Newtownforbes (Cas. Forbes Gdns)	72	116	92

Station.‡	Winter 6 Months, Oct. 1933-Mar. 1934. Per cent. of Average.	Summer 6 Months, Apl. 1934-Sept. 1934. Per cent. of Average.	Twelve Months, Oct. 1933-Sept. 1934. Per cent. of Average.
Ballynahinch Castle.....	70	125	93
Ahascragh (Clonbrock).....	71	108	88
Strokestown (Castlenode)	76	123	98
Blacksod Point.....	81	116	95
Westport House.....	78	123	96
Delphi Lodge.....	76	128	97
Collooney (Markree Castle)	72	119	93
Newtownbutler (Crom Castle)....	63	101	81
Armagh Observatory	60	121	91
Newry (Bridge Street House)....	64	107	83
Seaforde	61	117	87
Donaghadee (Coastguard Station).	76	127	101
Ballymena (Harryville).....	74	124	97
Londonderry (Creggan Reservoir).	80	123	100
Bellarena	73	110	90
Omagh (Edenfel).....	74	116	93
General Values* England	**72**	**87**	**79**
General Values* Wales	**72**	**95**	**81**
General Values* England and Wales..	**74**	**89**	**79**
General Values* Scotland	**77**	**123**	**97**
General Values* Ireland	**71**	**112**	**89**
General Values* British Isles†	**73**	**104**	**87**

* Obtained by taking the means of the percentage values for the stations. † Including Isle of Man and St. Peter Port, Guernsey.
‡ For Counties see Table XXI, pp. 117-121.



[face page 131]

10. THE TOTAL FALL OF RAIN IN 1934 AND ITS RELATION TO THE AVERAGE.

The total rainfall for the year is given for over 5,000 stations in the British Isles in the General Table, Part III of this volume. As many of these totals as practicable have been plotted on a map on the scale of 19 miles to the inch. In the districts of relatively few rainfall stations, each record has been plotted, while in the more thickly represented areas some have had to be omitted. Isohyetal lines, or lines of equal rainfall amount, have been drawn giving a cartographical presentation of the distribution of the rainfall of the year over the land. The map is reproduced on a smaller scale as the folding plate opposite page 132. Such a map is dominated by the orography of the country to such an extent that not only is it complicated in itself, but it also closely resembles its predecessors, the differences being noticeable only after detailed examination and comparison. The characteristics of a particular year are brought out better by a map such as that opposite p. 134, in which the percentage ratio of the rainfall for the year to the local average is shown. It has been coloured so that blue areas represent regions where the fall in 1934 was more than the average, and red areas represent regions where the fall in 1934 was less than the average for the standard period 1881–1915. The statistics on which the latter map is based are set out in Tables XXI and XXIV.

The percentage map for 1934 shows by means of continuous lines the places where the values of the rainfall were, respectively, 80, 90, 100, 110 and 120 per cent. of the average values.

The annual totals at practically every station were between 70 and 125 per cent. of the respective averages. The main feature of the distribution of the percentage values over England and Wales was the large area with less than 90 per cent. lying between Bath to Deal in the South and Liverpool to Hull in the north. There was less than 80 per cent. over a large area in the neighbourhood of Cambridge and Wellingborough as well as over small areas near the mouth of the Thames, near Worcester, Bideford, Wakefield and Bury. In parts of both the extreme south and north of England certain stations recorded more than 110 per cent. with as much as 120 per cent. to the east of the Cheviots. Over most of Wales the rainfall closely approximated

to the average. In Scotland less than the average occurred only in the neighbourhood of Edinburgh, the Moray Firth and in parts of the Outer Hebrides. In the south of Scotland and to the north of the Central Plain, falls exceeding 110 per cent. were widespread. As much as 120 per cent. was recorded over a number of small areas, *viz.*, to the north of Dumfries, in Glen Etive, Balmoral, to the north of Aberdeen, as well as in parts of Cromarty and Sutherlandshire. In Ireland the range was from rather less than 90 per cent. in parts of Co. Meath to 120 per cent. in Connemara. By far the greater part of Ireland reached a rainfall in excess of the average.

The smallest percentage values in Tables XXI and XXIV are 74 at March (Cambridgeshire), 76 at Wellingborough (Swanspool), 77 at Oundle (Milton Rd.) and 78 at Cambridge (Botanic Gardens), Margate (Cliftonville) and Bury St. Edmunds (Westley). The largest values were 128 at Melvich (Sunderland) and 124 at Glen Etive (Argyll).

Use is made of the percentage values at the 271 stations of both Tables XXI and XXIV to derive general values of the total rainfall for the year over the British Isles and over the larger divisions separately. These values are set out in the following table :—

TABLE XXIII.—*General Rainfall,* 1934, *compared with average.*

Countries.	No. of Stations.	Average 35 years 1881-1915.	1934	
			Per cent.	Rainfall.
		in.		in.
England	135	32·67	94	30·7
Wales.....	24	50·14	97	48·6
England and Wales.....	159	35·23	95	33·5
Scotland	62	50·32	110	55·4
Ireland	48	43·30	105	45·5
British Isles†	271	41·41	100	41·4

† Including Isle of Man and Guernsey, St. Peter Port.

For the British Isles as a whole, the rainfall of 1934 approximated closely to the average. The total rainfall over England and over Wales was less than the average, while both Scotland and Ireland gave more than the average amounts. Over England and Wales 1934 was not nearly so dry as 1933, while over Scotland the recent years, 1928, 1927 and 1926 were all wetter than 1934 and over Ireland 1931, 1930, 1929, 1928 and 1927 were all wetter. Over England and Wales the deficiency amounted to 1·7 inches, compared with 6·6 inches in 1933, the total deficiency for 1933 and 1934, being therefore as much as 8·3 inches.

The general distribution of the actual rainfall, as shown on the folding plate, is similar to that for other years. The total for the year was about 15 inches in the neighbourhood of the Thames Estuary, and near Cambridge, and less than 20 inches over much of south-east England, stretching from London and Margate in the south, to the Wash, along the coast to Felixstowe and from Wells to Hull, as well as near Abingdon and Leicester. Over practically the whole of Scotland and Ireland, the rainfall exceeded 25 inches. More than 100 inches were recorded in the English Lake District, over Snowdonia, parts of the Isle of Mull and the Southern Uplands, much of the Western Highlands and in Co. Mayo.

Among the largest totals reported for the year and set out in the General Table, Part III, the following may be mentioned :—

		Inches.
England ..	Cumberland, Borrowdale (Sprinkling Tarn)	181·00
	,, ,, (Styehead Tarn)	168·75
Wales ..	Snowdon (Delta)	175·33
	Carnarvon, Snowdon (Grib Goch)	178·62
Scotland ..	Argyll, Mull (Benmore)	130·10
	Inverness, Loch Arkaig (Glendessary) ..	126·50
Ireland ..	Mayo, Aasleagh House	120·31
	,, Delphi Lodge	116·29

The stations with the largest annual totals during 1934 occurred therefore in the English Lake District and on Snowdon.

Some of the smallest totals for the year are set out below :—

		Inches.
England ..	Essex, Shoeburyness (Great Wakering) ..	14·84
	Cambridge, Cambdg. W.W. (Cherrylunton)	15·12
	Cambridge, Stretham Engine	15·19
	Kent, Stoke Vicarage	15·20
Scotland ..	Fife, Inchkeith	21·54
	East Lothian, N. Berwick (Gas Works) ..	24·85
Ireland ..	Dublin, Kingstown (People's Park) ..	24·54
	Dublin, Lambay Island	25·18

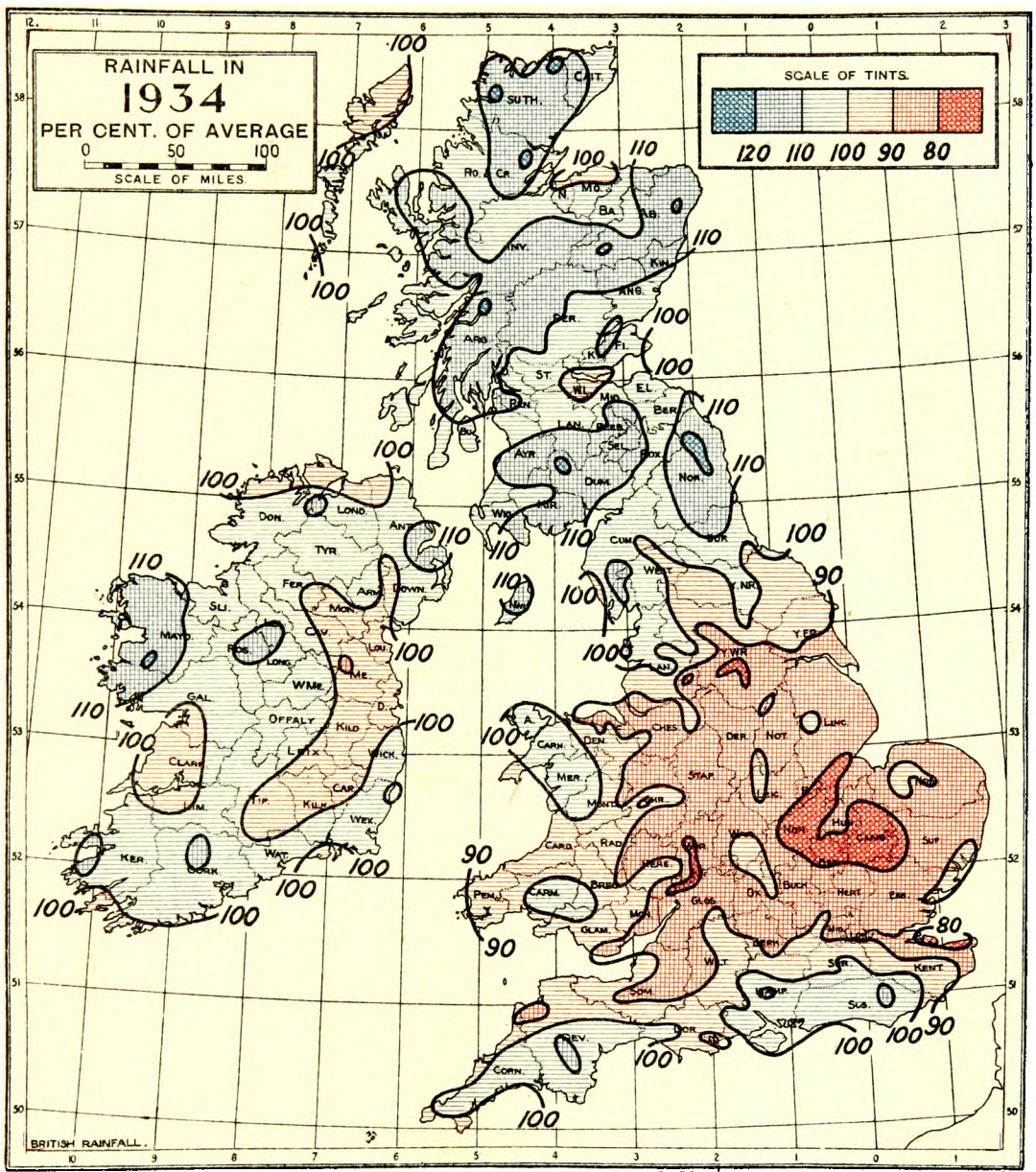
The smallest totals for the year were therefore recorded at stations in Cambridge and in the neighbourhood of the Thames estuary.

TABLE.—XXIV.—*Rainfall of* 1934 *as Percentage of Average,* 1881-1915.*

County.	Station.	Per cent. of Aver-age.	County.	Station.	Per cent. of Aver-age.
	ENGLAND.		Yorks W.R.	Skipton (Chelker Res.)	86
Surrey	Reigate (Wray Park Rd.)	101	,, E.R.	Patrington (Rose Cottage)	84
Kent	Folkestone (Cherry Gardens)	97	,, ..	Holme-on-Spalding Moor	92
,,	Lympne (Aerodrome)	91	,, ..	**Lowthorpe (The Elms)**	91
,,	Biggin Hill (Aerodrome)	97	,, N.R.	Pickering (Hungate Hall)	93
Sussex	Patching Farm	104	,, ..	Guisborough (Lockwood Res.)	101
,,	Horsham (Wimblehurst)	103	Durham	Barnard Castle (County Schl.)	103
,,	St. Leonards (Gensing Gardens)	103	,,	Ushaw (College)	117
Hampshire	Totland Bay (Aston House)	101	North'ld	Hallington Res.	116
,, ..	Portsmouth (Victoria Park)	108	,,	Morpeth (Cockle Park)	120
,, ..	Grayshott	104	,, ..	Howick Hall	115
Berkshire	Wellington College	94	Cumberl'd.	Penrith (Newton Rigg)	93
,,	Newbury (Greenham Common)	89	,,	Borrowdale (Seathwaite)	113
Hertford	Harpenden (Rothamsted)	88	,,	Ravenglass (The Grove)	99
Oxford	Middleton Park (*new g.*)	91	Westmorl'd	Grasmere (The Wray)	112
N'hants	Oundle (Milton Road)	77			
Bedford	Woburn (Experimental Farm)	82		**WALES.**	
Cambridge	Cambridge (Botanic Gardens)	78	Monmouth	Tredegar	96
Essex	Elsenham (Gaunts End)	85	Carmarth'n	Llanddeusant (Pontcrynfe)	105
,,	Shoeburyness (Great Wakering)	80	Pembroke	St. Ann's Head (C. Guard Stn.)	90
,,	Bradwell-on-Sea	90	Cardigan	Yspytty-ystwyth (Hafod)	92
Suffolk	Felixstowe (Aerodrome)	93	Brecon	Glasbury (Gwernyfed Pk.)	84
,,	Campsea Ashe (High House)	92	Montgom'y	Welshpool (County School)	82
Norfolk	Cromer (Howards Hill)	85	Denbigh	**Wrexham (Pack Saddle Res.)**	93
,,	Swaffham (The Villa)	95	,, ..	Denbigh (Garn)	89
Wiltshire	Landford (Northlands)	99	Merioneth	Bala (Eryl Aran)	104
,, ..	Marlborough (College)	95	,,	Corwen (Rug Gardens)	97
Dorset	Bere Regis (Bloxworth House)	90	Anglesey	Llanerchymedd (Llwy'thEsgob)	107
,, ..	Beaminster (Farrs)	105			
Devon S.	Plymouth (The Hoe)	109		**SCOTLAND.**	
,, ..	Tavistock	106	Dumfries	Langholm (Ewes)	109
,, N.	Torrington (Enfield)	86	,, ..	Eskdalemuir (Obsy)	117
Cornwall	Newquay (Mount Wise)	95	Selkirk ..	Ettrick Manse	113
,, ..	Falmouth (Observatory)	93	Midlothian	Moorfoot Hills (Gladhouse R.)	115
,, ..	Tresco Abbey	91	Ayr	Maybole (Culzean Castle Gdns.)	120
Somerset	Chew Magna	87	Renfrew	Paisley W.W. (Backth'ley'm.)	114
,, ..	Batheaston Reservoir	87	,, ..	Glasgow (Queen's Park)	107
,, ..	Somerton (Butleigh Court)	88	Argyll	Corran Lighthouse	108
,, ..	Milverton (Spring Grove)	88	,,	Glen Etive	124
Gloucester.	Cheltenham (Montpellier Gns.)	88	,,	Mull of Kintyre	107
Hereford	Hereford (Belmont Abbey)	95	,,	Loch Eck (Benmore)	119
,, ..	Leominster (Fairholme)	88	,,	Lismore (Mousedale)	106
Shropshire.	Shifnal (Hatton Grange)	94	,,	Tiree	102
Stafford	Leek (Wall Grange)	80	Perth	Glengyle	112
Worcester.	Bromsgrove (Tardebigge Res.)	88	,,	Perth (Wellshill Cemetery)	103
,, .	Stourport (Lincombe Lock)	80	Angus	Kirriemuir (Lintrathen)	108
Warwick	Ryton-on-Dunsmore (Ryton Ho.)	91	Aberdeen.	Ellon (Esslemont House)	123
Leicester	Kibworth Beauchamp	81	Ross	Applecross Gdns.	114
,, ..	Thornton Reservoir	98	Sutherland	Melvich	128
Lincoln	Spalding (Pode Hole)	79			
,,	Lincoln (Skellingthorpe Hall)	95		**IRELAND.**	
,,	Skegness (Marine Gardens)	82	Kerry	Darrynane Abbey	100
Nottingh'm	Nottingham (Strelley)	91	Tipperary	Cahir (Abbey)	93
,, ..	Retford (Babworth Hall)	82	Wexford	Foulkesmill (Longraigue)	103
Derby	Buxton (Terrace Slopes)	89	Dublin	Dublin (Phœnix Park)	95
Cheshire	Runcorn (Weston Point)	86	W'meath	Athlone (Twyford House)	106
Lancs. C.	Burnley (Swinden) *Lower g.*	102	Louth	Greenore	108
,, ..	Wigan W.W. (Worthington)	95	Galway ..	Galway (Grammar School)	100
,, N.	Blackpool (Met. Observatory)	112	Mayo	Aasleagh House	126
,, ..	Garstang (Grizedale Res.)	102	Armagh	Lurgan (Belle Vue)	95
Yorks W.R.	Slaidburn (Dunsop Houses)	103	Down	Banbridge (Milltown)	96
,, ..	Sheffield (Weston Park)	81	Antrim ..	Aldergrove (Aerodrome)	110
,, ..	Goole	89	,, ..	Belfast (Queen's Univ.)	115
,, ..	Huddersfield (Oakes)	86	L'derry ..	Limavady (Drenagh)	96

*See also Table **XXI**, pp. 117-121.

RELATION OF RAINFALL IN 1934 TO THE AVERAGE OF 1881-1915.



H.M. Stationery Office Press, Kingsway, W.C.2

Ps.3221/2942 Wt.3489 B. D.6030. Gp.908.650 1/36.

The area coloured Red had rainfall below the average, that coloured Blue had rainfall above the average

11.—EVAPORATION AND PERCOLATION IN 1934.

The *evaporation gauges* in use are square tanks sunk in the ground, and the evaporation which is measured is that from a free water surface. The standard gauge at Camden Square is 6 ft. square and 2 ft. deep, and is sunk so that the lip projects about 3 inches. A photograph showing the Meteorological station, including the tank, at Camden Square was reproduced as the *frontispiece* of *British Rainfall*, 1921. The routine consists of the daily measurement of the level of the water below a mark fixed in the tank. From the difference between consecutive daily measurements, is deducted the rainfall for the same period, as measured in an adjacent rain-gauge. The net depression of the water-level in the tank during the interval of 24 hours is taken to be a measure of the evaporation. Sometimes in winter the "evaporation" comes out as a small negative quantity; this is regarded as due to the condensation of water from the superincumbent air, and the corresponding measurements are marked "c" in the tables. So far as is practicable, the level of the water is kept about 2 to 3 inches below the top of the lip. This necessitates water being added in summer and syphoned off in winter. During the winter months there is some difficulty in getting a reading when the water freezes. In such cases the ice is broken away from the side of the tank and the measurement of the water-level is made while the ice is floating. If this cannot be done any morning, owing to the thickness of the ice, a measurement is made as soon as possible (on a subsequent morning), and the amount of evaporation calculated over the whole period. The evaporation is small in winter, so that little information is lost by adopting this procedure.

The accuracy of the measurements of evaporation depends on the depth of water caught as rain in the evaporation tank being identical with that measured directly in the rain-gauge alongside. Some of the factors which are likely to vitiate the measurements of evaporation were discussed in *British Rainfall*, 1925, pp. 127–128.

The list of stations given in Table XXV, for which details of the evaporation are available for 1934, is the same as last year apart from the termination of the record at Ardsley No. 2 and the inclusion of that from Revesby. The record from Revesby was last included in *British Rainfall*, 1929. The evaporation tank at Ardsley No. 2 was set up by Mr. Clemesha Smith, when waterworks engineer to the Wakefield Corporation, in order to compare the amounts recorded in a relatively sheltered site. Records are available from both tanks at Ardsley (known as No. 1 and No. 2) for the 21 years 1913 to 1933, the mean annual amounts being 17·35 in. and 15·36 in. respectively. The evaporation from a free water surface recorded in the more sheltered has been therefore appreciably less.

The monthly and annual means for the thirteen stations are set out in the last column of the table. For the year the mean evaporation is 17·8 inches. This is ·7 inch less than in 1933. May and July were the only months which gave appreciably more evaporation in 1934 than 1933. As much as 15·4 inches or 86 per cent. of the total was evaporated in the six summer months. There is a fairly uniform change from a maximum in July to a minimum in December and January, but the figures emphasize the sunny and dry August.

Evaporation at Camden Square (London). The monthly evaporation values for the 50 years, 1885 to 1934, are set out in Table XXVII. The record is the longest available in this country. For 1934 the evaporation of 17·67 inches was 2·17 inches more than the average for the 35 years (1885–1919). The total evaporation was ·80 inch less than that recorded in 1933, but there were only six other years in the series with more evaporation: *viz.* 1921, 1911, 1906, 1901, 1899 and 1893 with 19·69, 19·53, 19·03, 18·93, 18·88 and 18·18 inches, respectively.

The total evaporation was less than the average during the first four and the last two months of the year, but exceeded the average in each of the six consecutive months May to October. The total excess during these six months was as much as 2·78 inches. The largest excess occured in July, but the total of 4·07 inches recorded in that month was exceeded in four earlier Julys. October, with ·93 inch, gave the largest amount recorded in that month since before 1885. The evaporation record reflects the general weather conditions prevailing during the year. In London July was the warmest and sunniest month. At Kew Observatory the mean temperature of 62°·8 F. exceeded the average by 4°·5 F. and the mean daily sunshine of 9·1 hours exceeded the average by 2·8 hours. In each of the five consecutive months June to October both the mean temperature and the sunshine, as recorded at Kew Observatory, exceeded the average amounts. May and July were, however, the only months in which the evaporation recorded in 1934 appreciably exceeded that for the corresponding months of 1933.

The daily amounts of evaporation at Camden Square exceeded ·01 inch on only a few days during the four months January, February, November and December. Values reaching or exceeding ·10 inch were confined to the five months May to September. The evaporation exceeded ·10 inch on every day during July except six. The largest daily entry was that of ·22 inch recorded on the 9th July, the only other days with as much as ·20 inch being June 2nd, 3rd and 18th. On each of the five days July 7th to 11th the maximum temperature at Kew Observatory exceeded 80° F., the recorded sunshine exceeded 12 hours and dry easterly winds prevailed. The corresponding values for the evaporation were ·17, ·19, ·22, ·19 and ·19 inch respectively. On the following day when cloudy conditions prevailed and the wind

was from the south-west and more nearly saturated, the evaporation became only ·07 inch. On June 2nd, 3rd and 18th the sunshine recorded at Kew Observatory was 13·5, 14·1 and 12·7 hours respectively. On the first two days dry north-easterly winds prevailed, while on the 18th the wind was from the south-west, although also relatively dry and giving a maximum temperature exceeding 80° F. The main features of the evaporation record are the steady increase in the daily amounts from the winter to the summer months and the relatively small changes from day to day at any particular season.

Percolation gauges. In Table XXVI the amount of water which percolates through a definite depth of soil is given. The list of stations is the same as for 1933 but two additional gauges have been set up at Farlington. Details of the percolation gauges and the type of soil are set out in the footnotes, in *British Rainfall*, 1924, p. 128, and in *British Rainfall*, 1932, p. 143. All five gauges at Farlington consist of lengths of cast iron pipes, 36 inches in diameter, sunk vertically into the ground and set into a concrete foundation. The first three gauges were set up in March 1932 with 12 inches of top soil and turf above the 12, 24 and 36 inches respectively of chalky marl, so that the total depth available for effective percolation was 24, 36 and 48 inches respectively. Towards the end of 1933 two additional percolation gauges of the same type were set up. One contains 30 inches of sand from the local Bagshot Beds and the other 30 inches of well-rammed material from the local Upper Chalk (almost a pure chalk) both being covered by 6 inches of top soil and turf. The difference between percolation and rainfall is largely to be accounted for by evaporation, but evaporation as determined in this way (known as "calculated evaporation") is not strictly comparable with that given in the earlier table. There is no free water surface present in the percolation gauge, but during dry periods the surface soil is nearly dry, so that practically no evaporation can take place. In dry years the calculated evaporation, as obtained from the percolation gauges, will be less than similar values for wet years, and appreciably less than the values obtained from the water surface in a tank. In 1934 the mean value from the 13 percolation gauges was 17·97 inches, a value similar to that obtained from the evaporation tanks, *viz.* 17·84 inches. In 1933 the corresponding values were 12·94 and 18·53 inches. So that while in 1934 the evaporation from a free water surface as recorded in the tanks was only ·69 inch less than in 1933, the calculated evaporation from the percolation gauges was very much less in 1933, when at certain times during the year the percolation gauges practically dried out.

At Compton, no measurable rain percolated through the gauge (which consists of 10 inches of soil, on which grass is grown, over 2 feet of well-rammed chalk) from May 4th to November 8th. The absence of any percolation from May 18th, 1933, to January 14th, 1934,

was even more striking. There were further long periods from February 14th to March 6th and March 31st to April 23rd without measurable percolation. On the other hand the percolation for the last 30 days of December was as much as 11·19 inches. At Farlington rain percolated through the 24-inch and 36-inch gauges with chalky marl in both January and March, but this did not percolate to the bottom of the deepest gauge. In fact the 48-inch gauge only gave ·06 inch of percolation during the twenty months April 1933 to November 1934. At Rothamsted the periods without percolation were not so remarkable as at either Compton or Farlington, but during the four months May to August the total amount was only about one-tenth of an inch. At Harrogate the total percolation for the six months May to October was only 1·51 inches, while at Craibstone that of the two months June to July was less than ·05 inch.

The larger drainage through the 40-inch gauge at Rothamsted has been a feature of the records since they were first started. In the discussion of a paper on the " Subterranean Water in the chalk formation of the Upper Thames and its relation to the supply of London," read before the Institution of Civil Engineers in 1891, Dr. J. H. Gilbert explained this as due to the different composition of the soil, the sub-soil at Rothamsted being extremely variable. As the values for the percolation through the gauges 20 inch and 60 inch deep show no marked difference it seems reasonable to conclude that the 20-inch gauge at Rothamsted is of sufficient depth to give a good indication of the water likely to go into " permanent storage." At Farlington, however, the records show appreciably less percolation through the deepest gauge. There is very little difference between the percolation through the two gauges 36 inches deep whether of chalky marl or sand, but on the other hand the chalk gauge of the same depth gave less than that through either of the other two gauges.

The three gauges at Craibstone, each 40 inches deep, were under oats in 1934, whereas they were under potatoes in 1933 and under pasture in 1932. The two gauges in which the soil was manured gave more percolation than that in which the soil was unmanured.

At Compton, Rothamsted and Farlington the bulk of the precipitation occurred in December, but large amounts were also recorded in January, March and November. At Harrogate, April was the second wettest month of the year and large quantities percolated in that month. At Craibstone, April was the wettest month of the year and the percolation was largest in this month, large amounts also being recorded in May. Large amounts of percolations also occurred earlier in the autumn than at the other stations.

Table XXV.—*Evaporation in* 1934.

List of Stations.	County.	Observer.	Particulars of Tank. Height above Ground.	Height above Sea Level.	Side.	Capacity.
			ft. in.	ft.	ft. in.	Gals.
Camden Square.	London 2	Royal Meteor. Soc. ..	0 3	111	6 0	450
Otterbourne ..	Hampshire 5	J. Hawksley, Esq. ..	0 3	112	6 0	450
Petersfield	,, ...6	C. J. P. Cave, Esq.*	0 3	747	4 0	250
Ormesby St. M..	Norfolk 2	Gt. Yarmouth W.W.	0 3	21	6 0	450
Kennick	South Devon 5	S. C. Chapman, Esq.	0 3	835	6 0	450
Bartley	Warwickshire....4	J. W. Wilkinson, Esq.	0 3	611	6 0	450
Revesby	Lincoln 3	T. Henry Tyson Esq.	0 6	124	6 0	450
Southport	Cen. Lancashire...3	J. Baxendell, Esq. ..	0 3	37	3 0	112
Ardsley, No. 1	Yorkshire, W.R. 8	Wakefield Corp.W.W.	0 3	395	6 0	450
Lower Laithe ..	,, ,, 9	A. Atkinson,Esq.,C.E.	0 6	772	6 0	450
Harrogate	,, ,, 11	A. S. West, Esq.	0 3	589	6 0	450
Talla Water ..	Peebles 1	Messrs. Leslie & Reid	0 3	904	6 0	450
Glencorse Filters	Midlothian 4	,, ,,	0 3	639	6 0	450

1934.	Camden Square.	Otterbourne.	Petersfield.	Ormesby St. Michael.	Kennick.	Bartley.	Revesby.
	in.	in.	in.	in.	in.	in.	in.
January	·01	·00	·40	·18	c ·08	·17	·15
February	·19	·41	·22	·26	·48	·33	·15
March	·53	1·37	·92	·84	·84	·79	·44
April	1·32	1·81	1·46	1·22	1·17	1·73	·93
May.....	2·90	3·64	2·60	2·76	3·50	2·60	1·99
June	3·31	4·21	3·26	3·10	3·61	3·44	2·16
July	4·07	5·13	4·01	3·53	4·69	4·60	3·55
August	2·42	2·96	2·28	2·27	2·84	2·75	2·45
September	1·79	2·04	1·58	1·63	1·30	1·80	1·57
October	·93	·94	·89	1·36	·62	·92	·64
November	·23	·31	·32	·37	·22	·31	·28
December	c ·03	·17	·46	·29	c ·47	·44	·12
Year	17·67	22·99	18·40	17·81	18·72	19·88	14·43
Average, 1908–1934 ..	15·26	19·58	..	..	18·65	..	..
Difference	+2·41	+3·41	..	..	+ ·07	..	..

1934.	Southport.	Ardsley No. 1.	Lower Laithe.	Harrogate.	Talla Water.	Glencorse.	Mean of 13 Records.
	in.	in.	in.	in.	in.	in.	in.
January	c ·03	·22	·17	·57	·00	·01	·14
February	·20	·66	·34	·49	·16	·29	·32
March	·54	·79	·69	1·06	·32	·45	·74
April	1·63	1·52	1·49	1·76	·83	·82	1·36
May.....	2·64	2·72	2·50	2·53	1·84	2·48	2·67
June	2·82	3·40	2·75	3·16	3·24	2·70	3·16
July	3·90	4·45	3·46	3·99	3·03	3·52	3·99
August	2·52	2·90	2·37	2·90	1·65	2·18	2·50
September	1·47	2·13	1·49	2·21	1·49	1·55	1·70
October	·63	1·09	·65	1·54	·30	·68	·86
November	·14	·19	·17	·58	·05	·09	·25
December	·07	c ·06	·34	·49	·07	·00	·15
Year	16·53	20·01	16·42	21·28	12·98	14·77	17·84
Average, 1908–1934 ..	..	17·44	..	19·28	15·34	..	..
Difference	..	+ ·57	..	+2·00	−2·36	..	..

NOTE.—In the Table, " c " indicates an excess of condensation over evaporation.
* Per Royal Meteorological Society.

TABLE XXVI.—*Rainfall, Percolation and Calculated Evaporation, in* 1934.

(Unless otherwise stated the size of the percolation gauges is 3 ft. × 3 ft. × 3 ft.)

1934.	Compton, Sussex.		¶ Rothamsted, Herts.				‡ Farlington, Hants.						Harrogate, Yorks.		Craibstone, Aberdeen.			
			Percolation*				Percolation								Percolation §			
	Rainfall.	Percolation.	Rainfall†	20″ Soil.	40″ Soil.	60″ Soil.	Rainfall.	24″ Chalky Marl**	36″ Chalky Marl**	48″ Chalky Marl**	36″ Sand‖	36″ Chalk‖	Rainfall.	Percolation.	Rainfall.	1†† 40″ Soil.	2‡‡ 40″ Soil.	3‖‖ 40″ Soil.
January	2·68	1·01	1·94	1·69	1·76	1·69	2·04	1·78	·03	·00	·00	·00	2·28	1·86	1·59	1·14	1·33	1·40
February	·05	·17	·45	·05	·07	·07	·02	·01	·00	·00	·00	·00	·33	·17	·50	·05	·06	·03
March	3·22	2·47	2·34	1·57	1·68	1·53	2·87	1·41	1·26	·00	·93	1·44	2·75	1·75	1·59	·40	·59	·78
April	2·35	·41	1·86	·47	·48	·42	1·99	·04	·00	·00	·12	·15	3·81	1·99	7·55	5·41	5·44	5·17
May	·66	·04	·83	·04	·07	·07	1·15	·06	·00	·00	·12	·19	1·76	·42	4·05	1·80	1·87	2·02
June	1·92	·00	1·66	·00	·01	·00	1·24	·00	·00	·00	·03	·01	2·40	·15	·87	·04	·02	·01
July	1·49	·00	1·09	·00	·00	·00	·97	·01	·00	·00	·02	·01	1·32	·08	2·45	·00	·00	·00
August	3·68	·00	1·74	·05	·06	·04	2·78	·00	·00	·00	·00	·00	1·51	·14	5·17	·27	·22	·05
September	3·07	·00	2·66	·69	·75	·68	2·13	·00	·00	·00	·00	·00	2·45	·40	3·05	·78	·80	·59
October	2·34	·00	1·87	·72	·66	·59	1·84	·00	·00	·00	·00	·00	2·66	·32	4·19	1·48	1·88	1·82
November	3·66	2·63	1·74	1·52	1·46	1·36	3·37	1·82	·00	·00	·51	·00	2·41	2·40	2·77	2·04	2·52	2·46
December	11·72	11·19	5·37	4·89	4·94	4·75	8·45	7·69	7·19	5·69	7·13	4·74	6·03	5·49	5·88	4·56	4·87	4·61
Year	36·84	17·92	23·55	11·69	11·94	11·20	28·85	12 ·82	8·48	5·69	8·86	6·54	29·71	15·17	39·66	17·97	19·60	18·94
Calculated Evaporation	..	18·92	..	11·86	11·61	12·35	..	16·03	20·37	23·16	19·99	22·31	..	14·54	..	21·69	20·06	20·72

¶ Area of gauges one thousandth of an acre.
† Values obtained from the 8-inch gauge.
* Through bare unworked soil.
‡ 36-inch diameter gauges.
** Depths include 12 in. of top soil and turf.
‖ Depths include 6 in. of top soil and turf.
§ The gauges were under oats.
††Unmanured ‡‡Manured ‖‖Manured and limed.

Table XXVII.—*Evaporation at Camden Square, London, 1885–1934.*

	Jan. in.	Feb. in.	Mar. in.	April in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Total. in.
1885.....	·20	·38	·86	1·71	1·98	2·77	3·29	2·25	1·13	·77	·17	·11	15·62
1886.....	·23	·13	·53	1·59	1·78	2·93	3·12	1·86	1·46	·63	·27	·12	14·65
1887.....	c·07	·29	·76	1·72	1·79	3·68	3·76	2·54	1·25	·78	·21	·07	16·78
1888.....	·07	·37	·48	1·16	2·71	2·24	1·44	1·90	1·17	·60	43	·03	12·60
1889.....	·03	·18	·62	1·07	1·76	2·97	2·34	1·96	1·52	·42	29	c·13	13·03
1890.....	·08	·19	·50	1·44	2·63	2·14	2·33	2·02	1·27	·79	·31	·04	13·74
1891.....	·03	·16	·73	1·35	1·66	2·83	2·34	1·67	1·00	·62	·20	·22	12·81
1892.....	·05	·09	·60	1·88	2·65	3·05	2·84	2·20	1·01	·36	·02	·20	14·95
1893.....	c·03	·01	·92	2·33	3·06	3·62	3·12	2·85	1·48	·70	·11	·01	18·18
1894.....	c·04	·28	·83	1·17	2·10	2·48	2·49	1·91	·97	·37	·20	·11	12·87
1895.....	·14	·64	·36	1·26	3·06	3·31	3·07	2·12	1·27	·54	·19	·07	16·03
1896.....	·16	·24	·64	1·57	3·06	3·21	3·63	1·96	·68	·47	·18	·00	15·80
1897.....	·23	·21	·76	1·23	2·99	2·48	3·60	2·49	·99	·63	·26	c·14	15·73
1898.....	·19	·37	·51	1·28	1·56	2·10	2·96	2·53	1·73	·45	·11	·16	13·95
1899.....	·04	·28	·52	1·24	2·34	3·67	4·03	3·78	2·01	·45	·41	·11	18·88
1900.....	·03	·16	·80	1·46	2·35	2·85	4·25	2·61	1·61	·89	·24	·15	17·40
1901.....	·13	·24	·60	1·98	3·25	3·85	3·37	3·19	1·42	·64	·31	c·05	18·93
1902.....	·16	·15	·71	1·75	1·78	2·33	3·30	1·71	1·47	·69	·28	·27	14·60
1903.....	·26	·39	·97	1·57	2·24	2·79	3·35	2·53	1·51	·86	·29	·12	16·88
1904.....	c·09	·26	·54	1·68	1·81	3·32	4·06	2·86	1·20	·50	·26	·02	16·42
1905.....	·17	·35	·65	1·14	3·19	2·49	3·65	2·23	1·24	·78	·09	·16	16·14
1906.....	·06	·21	·73	1·90	1·90	3·53	3·65	3·46	2·38	·78	·27	·16	19·03
1907.....	·21	·38	1·02	1·27	1·93	2·47	2·65	2·24	1·72	·49	·27	·19	14·84
1908.....	·05	·27	·56	1·32	2·23	3·77	2·75	2·47	1·25	·48	·29	·14	15·58
1909.....	·14	·30	·30	1·85	2·93	1·70	2·60	2·23	·84	·76	·17	·16	13·98
1910.....	·22	·17	·80	1·43	2·52	2·57	2·00	2·12	1·42	·76	·19	·10	14·30
1911.....	·15	·32	·59	1·77	2·58	3·34	4·60	3·19	1·96	·64	·37	·02	19·53
1912.....	·24	·16	·79	2·34	2·44	2·49	2·55	1·69	1·41	·39	·33	·12	14·95
1913.....	·10	·32	·77	1·25	2·49	3·13	2·15	2·09	1·07	·61	·36	·32	14·66
1914.....	·09	·24	·52	1·84	2·56	2·93	2·72	1·99	1·68	·70	·28	·05	15·60
1915.....	·11	·13	·66	1·65	2·90	3·15	2·50	1·76	1·61	·56	·25	c·03	15·25
1916.....	·19	·34	·30	1·61	2·32	2·20	2·23	2·34	1·20	·76	·34	c·04	13·79
1917.....	·11	·17	·53	1·18	3·06	3·01	2·81	1·95	1·16	·75	·34	·12	15·19
1918.....	·14	·27	·85	·89	2·38	3·01	2·59	2·04	1·69	·40	·24	·16	14·66
1919.....	c·12	·13	·66	1·06	2·94	3·39	1·90	2·78	1·53	·61	·08	·06	15·02
1920.....	·20	·24	·78	·85	2·71	2·85	2·09	2·00	1·04	·66	·04	·00	13·46
1921.....	·20	·28	·96	1·91	3·04	3·66	4·17	2·56	1·72	·72	·19	·28	19·69
1922.....	·16	·31	·96	1·20	2·93	3·36	2·09	1·74	1·11	·66	·27	·14	14·93
1923.....	c·01	·16	·65	1·26	2·16	2·16	3·59	2·79	1·24	·73	·24	·02	14·99
1924.....	c·17	·28	·73	1·28	2·27	2·91	3·21	1·82	1·11	·59	·33	·11	14·47
1925.....	·12	·30	·83	1·30	2·34	3·48	2·61	1·58	1·01	·56	·37	·00	14·50
1926.....	c·03	·12	1·03	1·06	2·07	2·50	2·51	2·12	1·34	·74	·20	·05	13·71
1927.....	·05	·19	·65	1·45	2·91	2·64	2·01	1·75	1·08	·37	·29	·13	13·52
1928.....	c·04	·23	·70	1·33	2·15	3·04	4·08	2·17	1·67	·57	·36	·03	16·29
1929.....	·20	·29	·64	1·53	2·66	2·93	3·42	2·22	1·81	·80	·27	·14	16·91
1930.....	·13	·26	·90	1·07	1·82	3·07	2·85	1·98	1·16	·71	·28	·08	14·31
1931.....	·03	·22	·88	1·03	1·92	2·69	2·60	1·75	·97	·68	·12	·24	13·13
1932.....	·14	·33	·64	1·08	1·65	3·05	2·33	2·33	1·05	·63	·23	·10	13·56
1933.....	·08	·20	·80	1·70	2·36	3·48	3·44	3·13	1·86	·83	·33	·26	18·47
1934.....	·01	·19	·53	1·32	2·90	3·31	4·07	2·42	1·79	·93	·23	c·03	17·67
Average 1885–1919...	·10	·25	·66	1·51	2·43	2·91	2·97	2·33	1·38	·62	·25	·09	15·50
Difference 1934	−·09	−·06	−·13	−·19	+·47	+·40	+1·10	+·09	+·41	+·31	−·02	−·12	+2·17
Monthly Extremes of Evaporation, 1885-1934.													
Largest— Amt. (in.)	·26	·64	1·03	2·34	3·25	3·85	4·60	3·78	2·38	·93	·43	·32	19·69
Year	1903	1895	1926	1912	1901	1901	1911	1899	1906	1934	1888	1913	1921
Smallest— Amt. (in.)	c ·17	·01	·30	·85	1·56	1·70	1·44	1·58	·68	·36	·02	c ·14	12·60
Year	1924	1893	{1909 1916}	1920	1898	1909	1888	1925	1896	1892	1892	1897	1888

Note.—c indicates condensation.

METEOROLOGICAL OFFICE, AIR MINISTRY

BRITISH RAINFALL ORGANIZATION

BRITISH RAINFALL, 1934

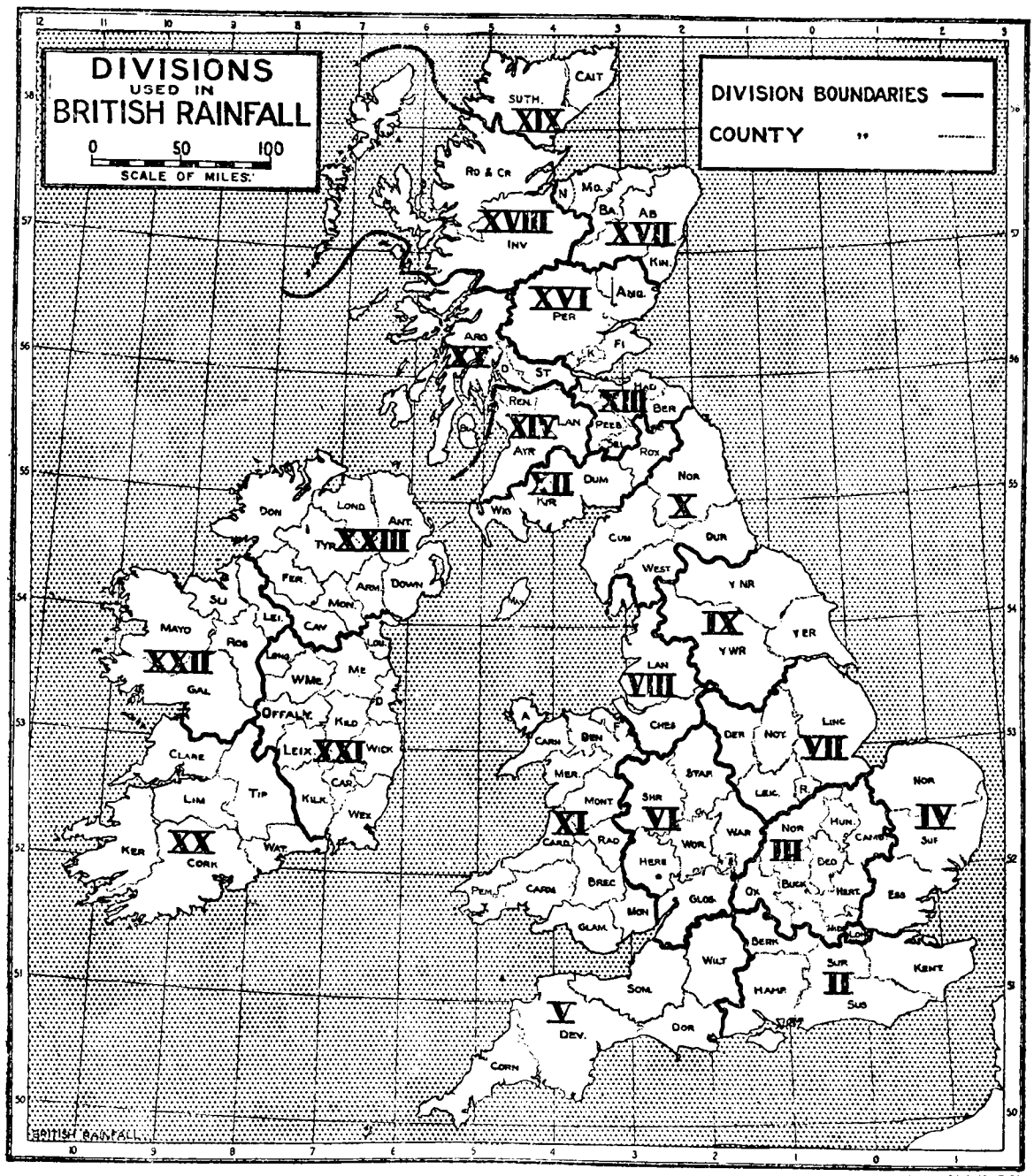
PART III

General Table of

TOTAL RAINFALL IN 1934

AT STATIONS IN GREAT BRITAIN
AND IRELAND WITH THE NAMES OF
THE OBSERVERS OR OTHER AUTHORITIES
FOR THE OBSERVATIONS

Issued by the Authority of
the Meteorological
Committee



AIR MINISTRY, METEOROLOGICAL OFFICE

EXPLANATORY NOTE.

The Divisions of Great Britain in the General Table are the same as those adopted by the Registrars-General of England and Scotland. They are shown on the map facing this page.

The counties are divided up into numbered areas, corresponding to the river-basins. An account of these river-divisions for England and Wales was given in a special article in Part I of *British Rainfall*, 1910 (pp. 37-66), and a similar article on the river-divisions of Scotland and Ireland appeared in Part I of *British Rainfall*, 1911 (pp. 40-72), with detailed maps showing all the river-divisions in each Division. Lists were also included showing the various river-divisions in each of the main catchment areas over the British Isles. The areas of the river basins of the Great Ouse and tributaries in Norfolk and Cambridge were redetermined in 1928; the values printed in this volume and in the volume for 1927 differ slightly from those published in *British Rainfall* from 1910 to 1926. The sequence of river divisions in Great Britain proceeds anti-clockwise from the Solway Firth. For example, in the West Riding of Yorkshire we have four divisions for rivers flowing to the Irish Sea, followed by eight divisions for rivers tributary to the Humber.

The stations in each river-division are arranged nearly in the order of their latitude from South to North. For convenience, the first name defining a station is that of a place which can be found on any large scale map; occasionally it is an adjoining county. The second name is added to fix the site of observation more closely, *e.g.*, "Haslemere .(Clammer Hill)" means Clammer Hill, near Haslemere.

Stations the names of which are printed in small capitals, *e.g.*, KENSINGTON PALACE, are climatological stations in association with the Meteorological Office. For the majority of these a summary of the climatological observations is printed in the *Monthly Weather Report*.

In some cases the records have been received from a local rainfall organization. This has been indicated by a footnote.

In the column headed "Diameter," figures in old style type indicate the length of the sides of rectangular gauges.

The letter D signifies that daily observations have been received and are complete for the year; d, that less complete daily records have been received; W indicates that weekly readings have been received, and M that the gauge is read only once a month, usually on the 1st.

(R) denotes that the gauge is a mechanical one the correct reading of which depends on the mechanism being in working order.

(A) denotes that the amount of rainfall is taken from the chart of an autographic instrument.

(+A) denotes that the amount of rainfall is taken from an ordinary gauge and that an autographic instrument is also in use.

Where two or more gauges are maintained at the same station the comparison of the records is seldom of general interest. The rule has now been adopted that in such cases only one record will normally be published in *British Rainfall.* The use of mechanical gauges for measuring the total rainfall is not recommended by the Meteorological Office and the number of records marked (R) or (A) is therefore small.

Gauges which have been inspected and found to be over-exposed on moorland have been so marked. It is likely that there are other gauges (notably some of those at lighthouses) which are also over-exposed.

The column for the total rainfall in millimetres, which was a feature of the corresponding table in the volumes for the years 1914 to 1925, has been omitted since 1926, and the space thus set free is devoted to a column for average annual totals, expressed in inches, to the nearest tenth of an inch. The averages are printed in ordinary type if they are either the mean of the annual values for the standard period 1881 to 1915, or, in the case of shorter records, if they have been reduced by the accepted method to the standard period. If the computation has been made outside the office the average is printed in italics, since it may subsequently be revised slightly. The average is also given in italics if it is the mean for twenty or more years other than the standard period or if the mean has been weighted to some other period. Averages for the standard period of 35 years 1881 to 1915, are always preferred for entry in the table. Many of the averages printed in italics have been kindly computed by Mr. H. P. Cornish of Keswick and these are weighted to the standard period 1881 to 1915.

A few entries of total rain will be found in brackets—indicating that the values have been corrected, *e.g.*, when snow has been lost, when the amount for a short period has been computed from other records, or when the gauge has been moved a short distance during the year. A record is not as a rule printed if the gauge has been moved more than a mile, or if there is a greater difference than 50 ft. of altitude between the two positions.

A note of interrogation (?) implies doubt, not necessarily error. The absence of information is indicated by ..

ENGLAND.

Bedford	170	Hereford	191	Oxford	168
Berkshire	163	Hertford	165	Rutland	197
Buckingham	167	Huntingdon	170	Shropshire	192
Cambridge	171	Kent	153	Somerset	186
Cheshire	201	Lancashire	202	Stafford	193
Cornwall and Scilly	185	Leicester	196	Suffolk	174
Cumberland	217	Lincoln	197	Surrey	149
Derby	199	London	148	Sussex	156
Devon	180	Middlesex	164	Warwick	195
Dorset	179	Monmouth	219	Westmorland	218
Durham	215	Norfolk	175	Wiltshire	177
Essex	172	Northampton	169	Worcester	194
Gloucester	189	Northumberland	216	Yorkshire	207
Hampshire	159	Nottingham	198		

WALES.

Anglesey	229	Carnarvon	228	Merioneth	227
Brecon	223	Denbigh	226	Montgomery	225
Cardigan	223	Flint	226	Pembroke	222
Carmarthen	222	Glamorgan	220	Radnor	225

ISLANDS.

Isle of Man	229	Channel Islands	230

SCOTLAND.

Aberdeen	247	E. Lothian	234	Peebles	233
Angus	246	Fife	243	Perth	243
Argyll	241	Inverness	249	Renfrew	238
Ayr	236	Kincardine	246	Ross and Cromarty	250
Banff	248	Kinross	242	Roxburgh	232
Berwick	233	Kirkcudbright	231	Selkirk	232
Bute	240	Lanark	235	Shetland	252
Caithness	252	Midlothian	234	Stirling	240
Clackmannan	242	Moray	248	Sutherland	251
Dumbarton	239	Nairn	248	W. Lothian	235
Dumfries	231	Orkney	252	Wigtown	231

IRELAND.

Antrim	262	Kerry	253	Monaghan	261
Armagh	261	Kildare	257	Offaly	257
Carlow	256	Kilkenny	255	Roscommon	259
Cavan	260	Leitrim	260	Sligo	260
Clare	255	Leix	256	Tipperary	254
Cork	253	Limerick	254	Tyrone	263
Donegal	263	Londonderry	262	Waterford	254
Down	261	Longford	259	Westmeath	258
Dublin	257	Louth	258	Wexford	255
Fermanagh	261	Mayo	259	Wicklow	256
Galway	259	Meath	258		

ENGLAND AND WALES.

DIVISION I—LONDON. (Area, 117 sq. mi.)

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	Days with .01 in. or more.	Days with .04 in. or more.
	1.—THAMES.—Right Bank Tributaries. 67 sq. mi.		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	BERMONDSEY.								
D	Southwark Park	London County Council...	5	1 0	9	24·4	21·22	123	114
	LAMBETH.								
D	Brockwell Park .....(+A)..	London County Council....	5	1 0	144	23·8	21·47	131	110
D	Brixton Hill Reservoir.....	Met. Water Board.....	5	0 10	121	23·9	20·53	127	102
	BATTERSEA.								
D	Battersea Park.....	London County Council...	5	1 0	13	23·2	18·48	131	101
	WANDSWORTH.								
D	Streatham (Conyers Road)	Met. Water Board.....	5	1 0	119	23·3	21·68	144	106
D	Streatham Hill Reservoir.....	Met. Water Board.....	5	1 0	205	23·3	20·98	128	103
D	Putney Heath Reservoir..(+A)..	Met. Water Board.....	5	1 6	179	..	19·61	149	101
D	Balham High Road.....(+A)..	E. J. Elford, Esq., C.E.....	5	1 6	89	24·7	22·18	148	112
D	Southfields (Coronation Gds)(+A)	E. J. Elford, Esq., C.E.....	5	1 6	37	23·6	19·05	132	97
	CAMBERWELL.								
D	Nunhead (Nunhead Reservoir)...	Met. Water Board.....	5	1 0	175	..	20·26	149	106
	DEPTFORD.								
D	Telegraph Hill.....	London County Council...	5	1 0	135	..	19·18	118	98
D	Waterworks.....	Met. Water Board.....	5	1 0	20	23·0	19·70	141	108
	GREENWICH.								
D	Deptford Pumping Station (+A)	London County Council....	8	1 0	18	22·4	19·33	122	99
D	ROYAL OBSERVATORY	The Astronomer Royal	8	0 5	149	23·5	19·45	147	107
	LEWISHAM.								
D	Forest Hill Reservoir.....(+A)..	Met. Water Board.....	5	1 0	339	..	22·84	149	114
	WOOLWICH.								
D	Eltham (High Street).....(+A)..	Met. Water Board.....	5	1 0	245	23·2	20·29	132	105
D	Plumstead Library.....	S. H. Philpot, Esq.....	5	1 0	48	..	21·10	147	109
	2.—THAMES.—Left Bank Tributaries. 50 sq. mi.								
	KENSINGTON.								
D	Harley Gardens.....	Mrs. Hamlyn Price.....	5	1 5	29	23·7	18·82	162	111
D	Holland House.....	Mr. P. B. Rintoul.....	5	1 0	68	23·9	19·66	139	102
D	Campden Hill Reservoir..(+A)..	Met. Water Board.....	5	1 2	142	24·5	19·43	146	102
D	KENSINGTON PALACE ....(+A)..	H.M.O.W. (M.O.).....	8	1 0	80	24·2	19·16	141	96
	HAMMERSMITH.								
D	The Creek.....	London County Council...	5	3 0	19	23·2	18·11	148	103
	FULHAM.								
D	Hammersmith Cemetery.....	R. J. Brown, Esq.....	5	1 0	17	23·4	17·65	125	98
D	Bishops Park .....(+A)..	A. F. Holden, Esq., C.E....	5	0 11	15	22·6	18·12	124	105
	CHELSEA.								
D	Physic Garden.....	W. Hales, Esq.....	5	1 0	20	23·4	18·41	136	102
D	Oakley Street.....	A. Hampton Brown, Esq...	5	1 0	25	..	17·73	150	101
D	St. Luke's Gardens	J. A. Gough, Esq.	5	1 0	25	23·3	18·04	140	99

DIVISION I—LONDON—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	2.—THAMES.—Left Bank Tributaries—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	WESTMINSTER.								
D	Western Pumping Station (+A)	London County Council...	8	1 0	19	..	18·01	138	102
D	King's Scholar's Pond P.S.	London County Council...	8	11 6	31	..	18·19	152	95
D	Buckingham Palace	Mr. A. J. Cole	5	8 0	35	23·5	18·92	140	104
D	Kensington Gardens	Prof. A. T. Sutton Pippard	5	1 0	78	..	18·84	138	105
D	ST. JAMES'S PARK (+A)	H.M.O.W. (M.O.)	8	1 0	27	..	17·83	140	100
	ST. MARYLEBONE.								
D	OXFORD STREET (Roof Gdns.) (+A)	Messrs. Selfridge & Co., Ltd.,	5	1 0	158	..	18·44	145	99
D	REGENT'S PARK	H.M.O.W. (M.O.)	5	1 0	129	..	20·14	135	107
	HAMPSTEAD.								
d	Barrow Hill Reservoir (+A)	Met. Water Board	5	1 0	175	..	19·41	..	103
D	Kidderpore Reservoir	Met. Water Board	5	1 0	328	..	21·24	150	115
D	OBSERVATORY (+A)	The Hampstead Scientific Soc. (E. L. Hawke, M.A.)	8	1 0	450	26·3	22·07	162	108
D	Golders Hill Park	London County Council...	5	1 0	350	26·2	24·71	177	124
	ST. PANCRAS.								
D	Camden Square (+A)	Royal Meteorological Soc.	8	1 0	110	24·5	20·90	141	102
D	CAMDEN SQUARE *Snowdon*	Royal Meteorological Soc...	5	1 0	110	24·5	20·74	141	102
d	Kentish Town (C.E. School)	The Headmaster	5	1 3	124	24·7	21·53	..	..
	STOKE NEWINGTON.								
D	New River Filter Beds	Met. Water Board	5	1 0	101	23·1	18·30	131	104
D	New River Reservoirs (+A)	Met. Water Board	5	1 0	105	23·5	18·67	133	102
	HACKNEY.								
D	Clapton Pond (+A)	P. Holt, Esq., C.E.	5	1 0	68	22·8	19·15	140	103
	FINSBURY.								
D	New River Head (+A)	Met. Water Board	5	1 0	95	..	17·61	134	101
	BETHNAL GREEN.								
D	Victoria Park	London County Council...	5	1 0	43	23·1	18·66	127	100
	POPLAR.								
D	Isle of Dogs (Island Gardens)	London County Council.	5	1 0	18	21·9	18·71	128	102
D	Old Ford Pumping Station	Met. Water Board	8	0 9	19	22·9	18·93	138	110
D	Old Ford (Penstock House) (+A)	London County Council...	8	1 0	43	22·4	19·03	142	108
	WOOLWICH.								
D	N. Woolwich Pumping Stn. (+A)	London County Council...	8	0 9	12	21·6	18·37	127	104
D	Barking Outfall	London County Council...	8	0 9	9	20·8	18·39	128	97

DIVISION II—SOUTH-EASTERN COUNTIES

SURREY. (Area, 725 sq. mi.)

1.—ARUN. 45 sq. mi.

D	Haslemere (Clammer Hill)	Mrs. Glennie	5	1 6	400	*35·8*	36·64	160	135
D	Haslemere (Furnace Place)	F. J. Barlow, Esq.	5	1 0	..	..	35·34	158	131
D	Haslemere (Grayshurst)	C. W. Dixon, Esq.	5	1 0	621	..	33·72	152	122
	Chiddingfold	L. J. E. Hooper, Esq.	5	1 0	220	..	31·01	..	..
D	Hambledon (Rossall)	Mrs. M. B. Furneaux	5	1 0	250	..	30·96	167	128

2.—MEDWAY. 50 sq. mi.

D	East Grinstead (Lockeridge)	Lt.-Col. J. F. Forbes, D.S.O.	5	1 0	320	..	33·72	168	123
D	Dormans Park (Chartham Park)	I. D. Margary, Esq.	5	1 0	270	..	34·96	170	127
D	Dormans Park (Hill Crest)	Dr. H. R. Mill	5	1 0	320	..	35·70	186	128
D	Dormans Park (Yew Lodge)	Mrs. I. D. Margary	5	1 0	260	..	34·38	158	125
D	Lingfield (Felcourt)	R. McAlpine, Esq.	5	1 3	225	..	34·19	160	120
D	S. Godstone (Hartsridge)	F. E. Goad, Esq.	5	0 10	450	..	28·91	166	118
D	Bletchingley (North Park Farm)	H. C. Millen, Esq.	5	1 0	300	..	29·64	170	129
D	Limpsfield (The Chart)	E. G. Ingold, Esq.	5	1 2	570	..	26·91	170	109

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SURREY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—MEDWAY—(*con.*).								
D Godstone	C. J. Salter, Esq.	5	1 0	400	..	30·14	171	124
Oxted (West Heath)	Norman W. Grieve, Esq.	8	1 2	500	..	29·73	157	125
3.—THAMES—Darent. 22 sq. mi.								
Limpsfield (Kent Hatch Res.)	A. E. Cornewall-Walker, Esq.	5	1 0	664	..	28·30	..	..
D Westwood (Pumping Station)	A. E. Cornewall-Walker, Esq.	5	1 0	418	..	27·97	133	113
Chelsham (Ledgers)	Mrs. H. A. Daniell	5	1 5	620	..	33·99	..	..
D Farleigh (Croydon Ment. Hosp.)	Croydon Corporation	8	1 0	100	..	32·54	153	127
Chelsham (Fairchildes)	A. S. Daniell, Esq.	8	1 0	600	*33·7*	32·43	..	..
D Addington (Hares Bk. Pump. Sta.)	Croydon Corporation	8	1 0	331	..	31·89	186	123
D Addington Hills Reservoir	Croydon Corporation	8	1 0	472	*29·4*	28·22	152	116
d Shirley (Residential Sch.)	W. H. Westacott, Esq.	5	1 0	197	..	(25·48)	..	..
D Norwood (Auckland Road)	Miss N. Cooper	5	1 5	230	..	19·93	147	105
4.—THAMES—Wandle. 71 sq. mi.								
D Kingswood (Margery Hall Res.)	W. Vaux Graham, Esq., C.E.	5	1 0	691	..	28·45	155	124
M Woldingham Reservoir (*New G*)	A. E. Cornewall-Walker, Esq.	5	1 0	841	..	32·71	..	..
D Woldingham	Miss V. K. Isaac	5	1 0	797	..	32·02	178	124
D Caterham Reservoir	A. E. Cornewall-Walker, Esq.	5	1 0	704	*34·6*	30·55	179	125
D Chelsham & Woldingham W.W.	A. E. Cornewall-Walker, Esq.	5	1 0	479	..	32·66	167	125
D Woldingham (Marden Park)	Sir Bernard Greenwell, Bt.	5	1 0	500	..	31·09	166	122
D Caterham Valley Depot	A. E. Cornewall-Walker, Esq.	5	1 0	431	..	32·06	193	129
D Chipstead (South Lodge)	G. R. Rudolf, Esq.	8	1 1	550	..	28·85	180	125
D Coulsdon (Netherne Ment. Hosp.)	The Clerk and Steward	8	0 10	540	..	29·98	165	122
D Banstead (Burgh Heath)	Capt. E. R. Taylor	5	1 0	571	*32·6*	30·21	166	128
D Banstead (Burgh Heath Res.)	W. Vaux Graham, Esq., C.E.	5	1 0	570	*32·7*	27·27	144	120
D Chipstead (How Green Res.)	W. Vaux Graham, Esq., C.E.	5	1 0	528	..	30·99	141	118
D Kenley Pumping Station	A. E. Cornewall-Walker, Esq.	5	1 0	275	..	29·33	161	121
Coulsdon (Howard Road)	J. H. Lowe, Esq.	5	0 6	425	..	28·71	172	119
D Coulsdon (Marlpit Lane)	Charles Knight, Esq.	5	0 6	350	..	30·13	175	122
D Banstead Mental Hospital	S. J. Wray, Esq.	5	5 0	410	..	25·18	157	118
D Purley (Council Offices)	The Surveyor	5	1 0	225	..	27·45	149	116
D Purley (Selcroft Road)	E. W. Finch, Esq.	5	1 0	380	..	27·25	166	115
D Purley (Pumping Station)	A. E. Cornewall-Walker, Esq.	5	1 0	214	*30·1*	28·97	164	116
D Purley (Green Lane)	E. E. Bluett, Esq.	5	1 0	341	..	27·66	154	112
D Purley (St. Mark's Vicarage)	Mrs. D. L. P. Shattock	5	1 0	336	..	28·07	164	119
D Sanderstead (Beechwood Rd.)	G. M. Davies, Esq.	5	1 0	320	..	30·30	165	119
d Sutton (The Ridgway)	W. H. Boucher-James, Esq.	5	1 0	250	..	24·62	..	115
D Croydon (Aerodrome) (+A)	Officer-in-Charge	8	1 0	217	26·7	26·62	156	118
D Carshalton (Pumping Stn.)	Surveyor, U.D.C.	5	1 0	83	..	23·29	151	109
D Carshalton (Park Road)	A. C. Challands, Esq.	5	1 0	200	..	23·72	144	103
d Carshalton (The Grove)	H. J. Spicer, Esq.	5	1 0	129	..	24·52	..	108
D Beddington (Sewage Farm)	Croydon Corporation	5	1 0	129	..	23·02	148	108
D Croydon (Northampton Road)	Mrs. Higgins	5	1 0	210	..	26·28	150	115
d Beddington Corner (Millgreen Rd.)	Messrs. G. Miller & Son	5	4 6	77	..	25·68	..	107
D Upper Norwood (Beulah Hill)	Rev. A. H. Shaw.	5	1 0	400	..	25·19	168	128
D Wimbledon (Compton Road)	G. H. Cheesman, Esq.	5	1 6	80	..	20·06	149	107
D Wimbledon (Sewage Pmp. Sta.)	T. Webster, Esq., C.E.	5	1 0	55	23·4	19·25	136	99
5.—THAMES—Mole &c. 229 sq. mi.								
D Horley (Smallfield)	W. W. Hughes-D'Aeth, Esq.	5	1 0	215	..	29·94	157	109
D Outwood (The Orchards)	H. Gurney, Esq.	5	1 0	274	*26·0*	29·80	169	126
D Dorking (Woodlands Pk.)	O. Langer, Esq.	5	1 0	260	..	31·97	150	120
D Dorking (Bramerton)	Rev. Jas. F. Twist	5	1 0	300	..	33·27	166	123
Dorking (Denbies)	Mr. J. Ansell	5	0 6	610	32·2	32·22	154	..
D Dorking (Pixham Lane Sew. Wks.)	Dorking U.D.C.	5	1 0	137	..	30·44	161	118
D Brockham	H. R. Kempe, Esq., C.E.	8	0 9	180	*31·2*	30·07	140	108

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	SURREY—(*con.*).		*in.*	*ft. in.*	*ft*	*in.*	*in.*		
	5.—THAMES—Mole &c.—(*con.*).								
D	Betchworth (Snower Hill)	T. DuBuisson, Esq.	8	0 11	250	..	33·24	161	128
D	South Nutfield (Hale Edge)	Mrs. B. Grant	5	1 0	250	*28·7*	26·84	155	130
D	Earlswood (Sewage Farm)	G. G. Sanderson, Esq., C.E.	5	1 0	200	..	27·16	155	114
d	Reigate (Hill-top Road)	H. E. Irving Taylor, Esq.	5	0 10	375	..	28·62	(164)	(117)
D	Redhill (London Road)	A. E. Cornewall-Walker,Esq.	5	1 0	270	..	26·80	162	119
D	Reigate (Woodcote)	Herbert Crosfield, Esq., J.P.	5	0 10	310	..	30·84	187	144
D	Reigate (Wray Park Road)	W. J. MacAndrew, Esq.	5	1 0	330	28·9	29·16	165	125
D	Reigate (Castle Grounds)	G. G. Sanderson, Esq., C.E.	5	1 0	350	*30·4*	29·64	167	125
D	Reigate (Thurso)	F. S. Smith, Esq.	8	1 0	270	..	28·37	156	120
D	Reigate (Raglan Rd.)	G. E. Collip, Esq.	5	1 1	450	..	29·59	169	127
D	Nutfield (Elstree) *new g.*	D. Morphew, Esq.	5	1 0	430	..	28·18	171	125
d	Bletchingley (South Park Fm)	Uvedale H. Lambert, Esq.	5	1 0	340	*31·4*	26·74	..	106
D	Merstham (Gatton Point)	C. F. Bull, Esq.	5	1 0	300	..	27·68	168	125
	Effingham	A.E.Cornewall-Walker,Esq.	5	1 0	363	..	29·31	..	..
D	Gatton (The Cottage)	J. F. E. Goad, Esq.	5	0 11	434	..	28·16	186	127
D	Headley Rectory	Rev. T. E. R. Phillips	5	1 0	570	..	30·85	180	119
d	Headley (The Hurst)	Mrs. Lyall	5	1 3	420	*32·2*	30·56	(171)	(132)
D	Walton-on-the-Hill	Mr. J. Millichamp	5	1 0	600	*31·7*	29·77	181	130
D	Fetcham W.W.	A. E. Cornewall-Walker,Esq.	5	1 0	102	..	26·91	167	123
D	Leatherhead (Dunard Lodge)(+A)	G. R. Crompton, Esq.	8	1 0	233	..	27·25	170	115
d	Leatherhead (Windfield)	Mrs. Still	5	1 5	250	..	25·77	..	121
D	Tadworth	C. H. L. Blaxland, Esq.	5	1 4	600	..	28·84	202	133
D	Epsom College	S. A. Weare, Esq.	8	1 6	300	..	25·14	161	113
D	Banstead Grange	R. L. Powell, Esq.	5	0 10	390	..	29·16	181	130
D	Epsom (Sewage Farm)	The Surveyor	8	1 8	120	*25·4*	23·14	155	110
D	Whiteley Village (Fox Oak)	H. E. Cooke, Esq.	8	3 4	195	..	22·45	166	110
D	Cobham (Uplands)	R. S. Morrish, Esq.	5	0 9	220	..	23·83	159	122
D	Cobham (Sandroyd School)	C. St. John Shortt, Esq.	5	1 6	120	..	20·93	140	107
D	Weybridge (St. George's Hill)	Mrs. Buckley	5	0 10	200	..	21·41	146	118
D	Claygate (Hertslets)	N. C. Armitage, Esq.	5	1 0	106	..	19·75	167	110
D	Esher (Halidon)	D. H. Baird, Esq., C.B.E.	5	1 5	114	..	21·87	155	112
D	Sutton (Waterworks)	W. Vaux Graham, Esq., C.E.	5	1 6	166	*26·0*	23·45	148	108
D	Sutton (Sewage Works)	L. H. Michell, Esq., C.E.	5	1 6	99	*28·8*	22·44	148	110
d	Worcester Park (Sewage Works)	L. H. Michell, Esq., C.E.	5	3 0	60	..	21·59	..	..
D	Surbiton (Seething Wells)	Met. Water Board	5	0 10	34	24·1	23·02	156	118
D	West Molesey (Walton Works)	Met. Water Board	5	1 0	35	23·5	20·51	147	109
D	New Malden (Dunbar Road)	J. W. Harris, Esq.	5	1 0	70	24·8	23·21	152	111
D	New Malden (Sewage Works)	R. H. Jeffes, Esq., C.E.	5	1 0	48	..	21·21	145	108
D	Kingston (County Hall)	W. E. Robinson, Esq.	5	0 9	31	..	20·72	147	103
d	Kingston (Grammar School)	The Headmaster	5	1 0	34	..	22·21	..	88
D	Kingston Sewage Works (+A)	P.G. Lloyd, Esq.	5	1 0	25	..	20·18	136	79
D	Merton Park (Mostyn Rd.)	A. T. Bench, Esq.	5	1 0	55	25·0	23·27	157	107
D	Merton Park (Innes Hort. Inst.)	Garden Superintendent	5	1 0	55	..	21·65	131	107
D	Merton (Joseph Hood Rec. Gd.)	The Engineer	5	1 0	48	..	21·73	131	103
D	Raynes Park (C. School)	The Headmaster	5	1 0	50	23·8	24·46	160	112
D	Raynes Park (CottenhamPk P.S.)	T. Webster, Esq., C.E.	5	1 2	50	23·6	21·35	133	107
D	Raynes Park (Richmond Road)	W. B. de Winton, Esq.	5	1 0	70	..	21·56	173	112
D	Wimbledon (South Side)	The late Rev. A. Welsh Owen	5	1 0	179	..	21·20	150	114
D	Wimbledon (West Side)	E. K. Wilson, Esq.	5	1 0	160	..	20·89	145	105
D	Richmond (Terrace Gardens)	G. Humpfreys, Esq.	5	1 6	25	..	20·62	146	105
D	KEW OBSERVATORY (+A)	The Superintendent	8	1 0	18	23·8	19·71	149	103
D	Mortlake (Hammersmith Cem.)	R. J. Brown, Esq.	5	1 0	23	..	20·05	147	105
D	Kew (Royal Botanic Gardens)	The Director	8	0 9	20	23·4	18·85	127	100
D	Barnes (Barn Elms)	Met. Water Board	5	1 0	16	22·9	18·53	122	105
	6.—THAMES—Wey. 236 sq. mi.								
D	Haslemere (U.D.C. Depot)	A. G. Whitcher, Esq.	5	1 0	475	*36·2*	37·41	173	133
D	Haslemere (U.D.C. Sewage Works)	A. G. Whitcher, Esq.	5	1 0	414	..	35·48	167	136
D	Haslemere (Frensham Hall Gdns.)	H. Windibank, Esq.	5	1 0	750	..	37·52	171	135
D	Haslemere (Frensham Hall Farm)	H. Windibank, Esq.	5	1 0	600	*37·4*	34·95	169	128
d	Hindhead (Littledale)	F. Harrison, Esq.	5	1 0	770	..	34·68	..	130
D	Oakwood Hill (Honeywood Ho.)	The Lady Tredegar	5	1 0	280	..	30·61	199	126

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

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SURREY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
6.—THAMES—Wey—(*con.*).								
D **Witley (King Edward's School)**	E. Townsend, Esq.	5	1 0	300	..	30·79	160	119
D **Witley (King George V. Sanatm.)**	Dr. J. Watt	5	1 0	305	..	32·63	164	128
D Churt (Furze Hills)	Rev. C. G. O. Bond, M.A.	5	1 6	390	..	32·00	168	133
D Churt (Bron-y-dê)	Rt. Hon. D. Lloyd George	8	1 11	350	..	31·34	175	128
D Hascombe Place	C. T. Musgrave, Esq.	5	1 0	361	*33·5*	30·79	158	117
D Cranleigh (Ruffold Lodge)	R. H. Pearce, Esq.	5	1 3	..	..	28·10	174	127
D **Godalming (Hascombe Court)**	Sir John Jarvis, Bt.	5	1 0	400	..	32·40	166	124
D Ewhurst (Coneyhurst)	Col. R. J. Few, D.S.O.	8	1 0	561	*33·7*	31·19	154	137
D Ewhurst (The Four Winds)	Miss E. Brooke	5	1 0	809	..	32·27	169	134
D **Cranleigh (Winterfold House)**	The Head Gardener	8	1 0	550	..	33·65	156	128
D Frensham (Spreakley Hollow)	A. R. Crossley, Esq.	5	1 0	200	..	28·22	166	128
d Godalming (Munstead Heath)	A. M. P. Hodsoll, Esq.	5	1 0	450	..	30·53	..	116
w Godalming (Borough Rd. P.S.)	The Engineer and Manager	8	1 0	120	..	28·24	..	..
Godalming (Holloway Hill)	Rev. W. Havard-Jones	5	0 9	350	..	28·73	..	..
Godalming (Filmer Grove)*	Miss Sanderson	.	..	..	..	26·71	..	..
Godalming (Charterhouse)	O. H. Latter, Esq.	5	1 0	130	*29·2*	26·84	156	125
Tilford (Woodlands)	T. A. B. Pares, Esq.	8	1 0	220	..	30·84	..	..
D Tilford (Brownholm)	J. King, Esq.	5	1 3	275	..	27·30	178	128
d Michen Hall	J. H. Wenham, Esq.	5	0 10	220	..	(25·42)	(161)	(109)
D **Shackleford (Hall Place)**	Sir Edgar Horne, Bart.	8	1 2	200	..	28·75	181	122
d Peaslake (Dewdney)	Norman Temple, Esq.	5	1 0	532	..	33·32	..	..
D Peaslake (Southcots)	H. M. Gregory, Esq.	5	1 0	420	..	33·16	165	132
D **Bramley (Wood View)**	Rev. C. J. Etty	5	1 0	135	..	30·93	159	130
d **Abinger Hill School**	B. R. Delap, Esq.	5	1 0	670	..	(30·46)	(151)	(119)
D **Abinger Common (Goddards)**	J. A. Gibbs, Esq.	5	1 0	586	..	33·01	179	122
D Abinger Common (Furzen Wood)	Major E. J. Lugard	5	1 0	555	..	32·31	177	128
Compton (Sandyknowe Gdns.) (A)	**Mrs. F. Houghton**	8	1 3	250	..	27·33	..	..
D Shere (Manor House)	R. A. Bray, Esq.	5	1 0	330	..	29·60	175	121
d Shere (The Rectory)	Rev. Sir P. M. Bowman, Bt.	5	1 3	200	..	30·09	..	128
d Albury (Dalton Hill Gardens)	Mr. J. Tidy	5	1 0	250	..	29·17	..	124
D **Abinger Hall**	Lord Farrer	8	1 0	300	*36·5*	35·39	203	143
D Shalford (The Hutch)	Capt. G. C. Pentland	5	1 4	170	..	26·17	164	119
D Farnham (Crooksbury Ridges)	F. R. Walters, Esq., M.D.	5	1 4	440	*31·0*	27·44	199	131
D Farnham (Short Heath Lodge)	Col. G. Chrystie	5	1 0	365	*29·8*	27·37	165	133
D Puttenham (Berthorpe)	Capt. E. H. Tuckwell, M.C.	5	1 0	350	..	27·79	160	115
D Guildford (Pilgrim Wood)	H. A. Powell, Esq., M.D.	5	1 0	320	..	26·13	162	109
D Guildford (Pewley Hill)	Miss H. S. Pitman	5	1 0	365	..	28·08	193	123
D Guildford (West Mount)	Miss M. E. Powell	5	1 0	220	..	26·94	168	113
d Guildford (Kilvington)	Miss Meynell	5	1 0	300	..	(26·65)	(176)	(123)
D Guildford (South St. Res.)	Borough Surveyor	5	1 0	235	..	**26·40**	154	112
D Normandy (The Manor House)	E. S. Hose, Esq., C.M.G.	5	1 4	149	..	24·38	150	116
d Merrow (Stoodwell)	S. Eustace, Esq.	5	0 10	250	..	25·68	..	120
D East Clandon (Hatchlands)	F. A. Akers, Esq.	5	1 0	340	..	28·15	168	120
D West Clandon	W. Fidkin, Esq., C.E.	8	1 0	319	..	27·21	156	113
D **Worplesdon (Tangley Place)**	E. J. W. Jeudwine, Esq.	5	1 10	150	..	24·21	151	115
d Worplesdon (Golf Club)	The Secretary	5	1 6	168	..	25·29	..	115
D Send (Woodside)	G. M. Osborne, Esq.	8	0 10	146	..	24·65	160	120
D E. Horsley (Forest Lane)	H. Blanchard, Esq.	5	1 0	176	..	24·13	150	110
D **Woking (The Grange)**	Miss M. E. Wilson	5	1 0	78	*26·1*	25·29	184	127
D Woking (Westfield)	Vernon B. Longhurst, Esq.	5	1 0	100	..	25·09	170	122
D Woking (Hook Heath)	W. S. Patterson, Esq.	5	1 0	160	..	24·45	159	114
D Woking (The Green)	Mrs. G. E. Howlett	5	0 9	122	..	25·14	156	119
d Brookwood (Sheets Heath)	Captain H. J. Cann	5	1 0	200	..	25·59	..	..
D Old Woking (Sewage Works)	Woking U.D.C.	5	0 6	76	..	24·61	148	121
Woking (Goldsworth)	Mrs. S. Slocock	5	1 4	110	..	(25·33)	..	..
D **Woking (Goldsworth Rd. Depot)**	Woking U.D.C.	5	2 6	96	..	24·76	158	119
D Woking (Maybury Hill)	Sister Anita	5	1 7	150	..	25·78	182	118
D **Horsell (The Vicarage)**	**Rev. Canon Norman Pares**	5	1 1	140	..	21·89	150	107
D Byfleet (WISLEY R.H.S. Gdns.)	The Director	8	1 0	150	24·1	23·90	168	120
D Wisley (Outfall Works)	Woking U.D.C.	5	1 0	55	..	23·83	150	120
D **West Byfleet (Starcross)**	Walter W. Way, Esq.	5	1 0	110	..	24·78	151	124

* Data supplied by Engineer and Manager, Godalming W.W.

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

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	SURREY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	6.—THAMES—Wey—(*con.*).								
d	West Byfleet (Scotland Bridge)	Woking U.D.C.	5	1 6	66	..	(24·19)	..	..
D	Weybridge (Harwood)	Lt.-Com. J. K. Elliott, R.N.	5	0 11	150	..	21·46	160	112
D	**Weybridge (St. Michael's)**	**H. I. Bond, Esq.**	5	1 0	115	..	22·29	169	111
D	Weybridge (Heath Field)	Miss A. T. Gardiner	5	1 0	100	..	22·90	149	118
D	Addlestone	W. V. Davies, Esq., C.E.	8	1 0	42	..	22·73	160	111
D	**Weybridge (Oil Mills)**	**A. Whittet, Esq.**	5	1 0	36	*24·1*	21·77	166	107
	7.—THAMES—Bourne. 55 sq. mi.								
D	Bisley School	W. B. Paddock, Esq.	5	1 4	140	..	22·32	149	109
D	**Knap Hill (Ulundi)**	G. C. H. Simmonds, Esq.	5	1 0	180	..	26·30	165	122
D	Knap Hill Nurseries	Donald Waterer, Esq.	5	1 0	105	..	25·42	163	113
D	**Chobham (Sandpit Hall)**	**K. H. Power, Esq.**	5	1 0	100	*26·7*	23·14	159	109
D	**Chobham (West End)**	**F. A. Walter, Esq.**	5	1 0	150	..	24·25	187	123
d	**Bagshot (Charlton)**	**W. Perry, Esq.**	5	0 10	215	..	25·12	..	..
d	**Bagshot**	**J. Waterer Sons &Crisp,Ltd.**	5	1 0	265	..	24·24	(151)	(118)
d	**Chertsey (Ottershaw)**	**L. H. Seccombe, Esq.**	5	1 0	200	..	(23·16)	..	..
D	Windlesham (Windlesham Ho.)	R.Adml.A.Cochrane,C.M.G.	5	1 0	200	..	24·43	183	119
D	**Upper Childown (Long Cross H.)**	**Miss C.M.Leycester-Penrhyn**	5	1 0	200	..	24·29	186	115
d	**Sunningdale (Hilltop)**	**E. F. Cecil, Esq.**	5	1 0	280	..	23·36	..	114
D	Chertsey	W. V. Davies, Esq., C.E.	8	1 3	47	..	22·23	165	110
D	**Chertsey (Abbey Meads)**	**W. Fidkin, Esq., C.E.**	8	1 0	53	..	20·33	157	109
D	Virginia Water (S. Ann's Heath)	H. Y. Summons, Esq.	8	1 1	80	*25·4*	23·52	142	115
D	Egham (Kingswood Sch.)	The Rev. Mother Superior	5	1 0	250	..	21·21	140	104
	8.—THAMES—Lodden. 17 sq. mi.								
D	Frimley Green Waterworks	S. G. Weller, Esq.	5	1 7	220	*24·6*	21·96	142	104
D	Frimley Green (Ridgemount)	C. C. Haviland, Esq.	5	0 9	350	*29·1*	25·56	207	119
D	Camberley (Way's End)	E. Ernest Green, Esq.	5	0 11	295	..	23·45	162	119
D	Camberley (Cordwalles)	C. H. Ledward, Esq.	5	1 0	400	..	23·23	157	120
	KENT. (Area, 1,532 sq. mi.)								
	1.—ROTHER & C. 217 sq. mi.								
D	Dungeness (Lighthouse)	Chief Officer R.N. Sig. Stn. (M.O.)	8	0 11	20	24·4	20·74	139	105
D	Lydd (The Paddock)	Dr. J. A. Proctor	5	1 0	10	..	22·72	128	106
D	**Lydd (Westbroke House)**	**A. G. Finn, Esq., J.P.**	5	1 0	10	..	22·85	140	107
D	New Romney (Cravthornes)	S. H. LeRoy-Lewis, Esq.	5	1 0	13	..	25·12	149	104
D	**Brookland (Thrift Farm)**	**The late C. Clark, Esq.**	12	3 0	11	..	26·76	144	107
D	Dymchurch (Grove House)	R. S. Jones, Esq.	5	1 0	8	..	22·51	158	112
d	Dymchurch (Hoornes)	Mrs. Paddock	5	1 0	9	..	24·39	..	..
D	**Appledore (The Well House)**	**Dr. F. W. Cook**	5	1 0	23	..	28·03	146	114
D	Hawkhurst (Moor House)	F. S. Springett, Esq.	5	1 0	208	..	29·86	134	112
D	Hawkhurst (Hensill)	Mrs. F. Ross Thomson	5	1 0	175	*30·5*	29·26	161	110
D	Kenardington (The Firs)	Cmdr. F. H. Lyon, D.S.O.	5	1 2	65	..	26·71	143	102
D	**Tenterden (Ashenden)**	**T. C. Norris, Esq.**	5	1 0	190	*27·5*	28·11	136	115
D	Benenden (National Sanat'm)	H. Spurrier, Esq., M.B.	5	1 0	150	..	25·52	146	110
D	**Hythe**	**M. J. Harvey, Esq., C.E.**	5	0 9	12	*28·0*	24·84	148	107
D	**Hythe (Douglas Avenue)**	**W. H. Elder, Esq.**	5	1 9	33	..	23·76	144	109
D	Hythe (Sandling Park)	Capt. A. E. Hardy	8	1 0	260	*30·4*	28·68	140	122
D	Saltwood (Cylinder)	Miss M. Lethbridge	5	1 0	230	..	27·89	147	118
D	**Folkestone (Radnor Park West)**	**H. D. Seth-Smith, Esq.**	5	1 0	200	..	27·61	140	114
D	Folkestone (Borough Sanat'm)	Borough Engineer	5	1 0	101	*28·6*	26·90	148	114
D	**Folkestone (Cherry Gardens)**	**The Engineer**	5	1 6	230	29·1	28·16	152	128
D	**Folkstone (Lower Standen)**	**The Engineer**	5	2 11	250	..	25·29	147	121
D	Dover (Waterloo Crescent) (+A)	W. B. Smith, Esq., C.E.	8	1 0	22	..	24·41	142	114
D	**Dover (Waterworks)**	**W. B. Smith, Esq., C.E.**	5	1 6	200	*30·0*	25·13	135	114
D	**Dover (Buckland)**	**Guy Mannering, Esq.**	8	1 6	50	..	28·19	128	114
D	Dover (River, Gwydr)† (+A)	Cyril G. W. Lewis, Esq.	5	1 0	150	..	27·53	148	114
D	**Kearsney (Chilton Farm)**	**W. B. Smith, Esq., C.E.**	5	1 6	127	*33·5*	30·75	145	121

† Formerly at Barton Road.

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
KENT—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—STOUR & C. 386 sq. mi.								
D LYMPNE (Aerodrome) ....(+A)...	Meteorologist-in-Charge ...	8	1 0	346	*28·5*	25·84	155	110
D Sellindge (Council School).....	S. H. Serpell, Esq.....	5	1 0	200	..	29·17	144	117
D Smeeth School.....	W. H. Wetherell, Esq.....	5	1 0	300	..	27·72	177	113
D Lyminge (Elham Valley W.W.)....	Phillip Harris, Esq	5	1 6	445	..	32·68	170	128
D Ashford (Gas Works)	L. G. Kimmins, Esq.	5	0 11	125	..	26·16	156	113
d Swingfield (The Forge).....	T. Dixon, Esq., Jnr.....	5	1 0	560	..	(30·66)	..	..
D Ashford.....	B. H. Headley, Esq.....	5	1 0	190	..	25·81	171	119
D Ashford (Albert Road).....	A. E. Brounger, Esq.....	5	1 0	185	..	26·95	169	114
d Elham (Bladbean Farm).....	Capt. T. L. Wall	5	0 9	459	..	32·16	..	123
D Dover (Martin Mill Pump. Stat.)...	F. L. Ball, Esq.....	5	1 0	287	..	28·55	143	118
D Elham (Domel).....	J. Hill, Esq.....	5	1 6	459	..	32·61	144	119
D WYE (Agricultural College)	S.E. Agric. College	5	1 0	164	..	25·94	151	115
D Waldershare Rectory.....	Rev. H. Saumarez Smith...	5	1 0	275	..	30·26	161	122
D Waldershare Park Gardens.....	J. Haggett, Esq.....	8	1 0	250	*33·2*	29·39	140	123
D Shepherdswell (Upton Lodge).....	Rutley Mowll, Esq.....	5	1 0	300	..	31·83	158	124
D Boughton Aluph (Fairlawn).....	E. Simmons, Esq.....	5	1 3	220	..	24·73	165	105
D Charing Pumping Station.....	F. L. Ball, Esq.....	5	1 0	295	..	26·27	153	112
D Charing (Pett Place) *new g*.....	Brig.-Gen. T. M. S. Pitt....	5	1 0	300	..	28·12	159	114
D Deal and Walmer W.W.....	W. Mantle, Esq.	5	1 0	110	*28·0*	25·86	147	110
D Barham (Old House)	L. S. Osmaston, Esq.	5	0 9	175	..	27·21	151	119
D Barham Pumping Station.....	F. L. Ball, Esq.....	5	..	173	..	27·81	145	116
D DEAL (Wellington Road)	The Town Clerk	5	1 0	25	..	24·89	137	111
D Worth (Upton House).....	Capt. W. Elwin Napier	5	1 0	32	*27·7*	26·85	153	113
D Worth (Felder Lodge).....	J. S. Campbell, Esq.....	5	0 10	26	..	23·13	153	114
D Wingham (Margate W.W.).....	Mr. J. H. Parker.....	5	1 0	138	*28·7*	25·58	166	115
D Chilham (Lower Ensden).....	F. Ivo Neame, Esq.....	5	3 0	305	..	26·39	157	122
D CANTERBURY (Medical Hall)	A. Lander, Esq.....	5	1 0	124	..	23·72	149	104
D Canterbury (London Road).....	Miss B. Spillett.....	5	1 0	66	*28·7*	25·15	152	120
D Canterbury (Irrigation Works)....	The Manager	5	2 6	15	*27·5*	25·00	151	114
d Canterbury (Rough Common)....	R. W. Wood, Esq.....	5	1 0	285	..	25·87	..	114
D RAMSGATE (East Cliff).....(+A)	Borough Engineer	8	1 0	80	*24·0*	20·02	157	104
D Ramsgate (Archer House).....	Miss M. A. G. Saunders ...	5	1 0	75	..	20·55	145	109
D Birchington (Acol Farm).....	C. S. Willett, Esq.....	5	2 0	30	..	19·11	142	99
D Reculver.....	Allington Collard, Esq.,....	5	5 2	27	*21·8*	20·19	133	109
d Broadstairs (Domus).....	Capt. W. B. Marling.....	8	1 0	60	..	20·73	..	102
D Broadstairs (Collis Court Road)...	A. Watkins, Esq.....	5	1 0	120	..	22·35	172	114
D St. Peter's (Hildersham House) ..	The Surveyor	5	0 9	145	23·7	23·01	153	118
d Birchington (Hollydene).....	W. Tomlin, Esq., Junr.....	5	6 0	75	..	18·05	..	102
D MARGATE (Cliftonville).....	The Town Clerk	5	1 0	51	22·8	17·73	135	97
3.—SWALE & C. 167 sq. mi.								
d Selling (Grove House).....	F. Ivo Neame, Esq.....	5	1 5	330	..	26·56	..	103
D Selling (Luton).....	F. Ivo Neame, Esq.....	5	4 9	300	*30·4*	29·40	177	124
D Sittingbourne (Torry Hill).....	D. Leigh Pemberton, Esq...	5	1 0	497	..	26·97	162	118
D Faversham (Water Wks.)	The Engineer & Manager...	8	1 6	130	..	24·47	162	116
d Ospringe (Queen Court).....	L. H. Finn, Esq.....	8	1 3	50	..	25·28	..	116
D Ospringe (Lorenden)	L. H. Finn, Esq.	5	1 6	175	..	24·82	161	113
D Faversham (Portway).....	C. Gordon Neame, Esq.....	5	3 6	180	..	25·24	151	113
Teynham (Norton Court).....	A. L. Mercer, Esq.....	5	1 6	90	..	24·05	..	..
D Teynham (New Gardens).....	Mrs. Honeyball.....	5	1 5	30	*24·5*	20·61	154	101
d Milton Regis (Sewage Works).....	Sittingbourne U.D.C.....	5	1 1	19	..	(18·91)	..	..
Herne Bay (Waterworks).....	J. Roberts, Esq.....	5	1 0	130	*22·8*	20·42	..	..
D HERNE BAY (Memorial Park)	The Surveyor	5	1 0	14	..	19·32	136	101
d Sheppey (Eastchurch Parsonage)..	Mrs. M. Warren.....	5	1 0	100	*22·9*	16·39	..	..
D Sheerness.....	Dr. W. C. D. Hills.....	5	1 0	9	..	17·16	139	93
4.—MEDWAY. 506 sq. mi.								
D GOUDHURST (Bedgebury Pk. Gdns.)	Mr. H. Arnold.....	5	1 0	290	..	31·62	159	113
D Kilndown School.....	J. A. Ager, Esq.....	5	1 3	365	..	30·93	157	119
D Scotney Castle.....	E. W. Hussey, Esq.....	5	3 9	203	*26·8*	27·66	152	108

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	Days with ·01 in. or more.	Days with ·04 in. or more.
KENT—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—MEDWAY—(*con.*).								
D Cranbrook (Little Glassenbury)	J. I. Stirling, Esq.	5	0 10	360	..	29·27	159	114
d High Halden (Middle Quarter)	Mrs. J. E. Budding	5	1 0	114	..	28·04	..	..
D Goudhurst (Gore Court)	J. A. Druce, Esq.	5	1 0	197	*30·3*	26·80	135	108
D Tunbridge Wells (Hawkenbury)	D. W. Horner, Esq.	5	1 6	435	..	32·88	158	124
D Tunbridge Wells (Rustall Grange)	Mrs. Robins	5	1 0	440	..	30·47	149	119
Tunbridge Wells (Langton Green)	Miss E. M. Pott	5	1 0	420	..	33·03	184	122
D Tunbridge Wells (Calverley Pk.)	Medical Officer of Health	5	1 0	355	..	29·61	149	120
D Tun. Wells (The White House)	Miss Monica G. Robins	5	1 6	300	..	30·76	147	118
D Matfield (Kings Mead)	Henry Hills, Esq.	5	1 6	390	..	29·87	149	111
D Brenchley (The Warren)	Capt. Carl Langer	5	0 6	275	..	30·46	159	118
D Speldhurst Rectory	Rev. Canon H. Masters	5	0 10	334	..	30·76	150	117
D Pembury (The Spring)	Miss A. P. Fowler	5	1 0	416	..	32·71	180	138
D Pembury Waterworks	H. P. Bishop, Esq., C.E.	8	1 8	197	..	29·06	150	117
D Markbeech (Edells)	Miss M. F. Pearse	5	1 0	320	..	28·56	177	119
D Edenbridge (Falconhurst)	Hon. Mr. Justice Talbot	5	1 6	375	30·7	31·00	174	126
D Edenbridge (Stonewall Pk.)	Lt.-Col. E. R. Meade-Waldo, D.S.O.	5	1 1	344	..	29·41	158	112
D Edenbridge (Gilridge)	J. Mavrogordato, Esq.	5	1 0	400	..	31·45	168	115
D Edenbridge (Hever Castle)	Mr. A. McCutcheon	5	1 0	200	..	28·15	147	111
D Headcorn (Upalong)	R. S. Hartree, Esq.	5	1 6	100	..	23·60	146	114
d Pluckley (Brick Works)	Guy G. Davies, Esq.	5	1 6	112	..	24·61	(176)	(104)
D Penshurst Place	Lord De L'Isle and Dudley	5	1 6	120	..	31·01	182	121
D Penshurst (Parkholt)	J. M. Sturgess, Esq.	5	0 9	265	..	27·08	140	112
D Tonbridge (Mabledon Park)	J. F. W. Deacon, Esq.	5	1 6	190	..	27·65	165	117
D Tonbridge (Ingleside)	A. H. Neve, Esq.	5	1 1	160	..	27·32	162	118
D Tonbridge (Thorpe Avenue)	F. J. Reed, Esq.	5	1 0	150	..	25·57	141	108
D Hildenborough (Gailes)	E. E. Roper, Esq.	5	1 0	159	..	25·90	156	116
D Hildenborough (Hollanden Ho.)	C. H. Scott, Esq.	8	1 0	99	..	26·82	175	118
d Hildenborough (Old School Cot.)	J. S. Roper, Esq.	5	1 2	270	..	24·99	..	109
D East Peckham (Woodbine)	W. H. Pearson, Esq.	8	1 0	48	..	25·71	150	115
D Langley (Rumwood Court)	Mr. W. J. Gould	5	1 9	354	..	25·24	174	119
d Harrietsham (Dun Akyune)	C. Mackinnon, Esq.	5	1 4	400	..	28·26	..	128
d Lenham	D. F. Tysoe, Esq.	5	1 6	400	..	27·13	(150)	(118)
D Nettlestead (Old Quarry)	W. Pye-English, Esq.	5	1 0	286	..	25·35	183	114
D Otham (Synyards)	Ambrose Boyson, Esq.	5	1 0	315	..	26·53	190	120
d Sevenoaks (River Hill) *new g*	Lt.-Col. J. M. Rogers, D.S.O.	5	1 0	500	30·0	27·96	..	115
D Hollingbourne (Penn Court)	S. Lucy, Esq.	5	1 1	261	..	25·31	162	120
D Maidstone W. W. (Barming)	C. H. Harden, Esq., C.E.	5	1 4	245	..	23·37	144	104
D Wrotham Heath (Huntsman's Ldge)	G. B. Kershaw, Esq.	5	1 9	284	..	28·87	148	117
D Maidstone (Grammar Sch.)	C. W. R. Hodges, Esq.	5	1 0	156	..	23·57	148	102
D Maidstone (Mill Street)	T. F. Bunting, Esq.	8	6 0	37	..	24·42	167	108
D Maidstone (Brenchley Gardens)	T. F. Bunting, Esq.	5	0 9	49	..	24·48	147	107
D East Malling (Belvidere)	O.I.L. Bird, Esq.	5	1 9	250	..	26·27	141	109
D East Malling (Research Station)	The Principal	8	1 0	132	..	24·69	138	105
d Maidstone (Allington Lock)	Mr. W. Smith	5	1 0	20	..	23·46	..	104
d Aylesford (Forstal P. Stn.)	C. H. Harden, Esq., C.E.	5	1 0	20	..	23·33	..	107
D Detling (The Croft) *new g*	R. Cooke, Esq.	5	1 0	330	*27·8*	25·52	187	117
D Trosley Pumping Station	F. L. Ball, Esq.	5	1 8	250	..	27·31	149	116
D Maidstone W.W. (Boxley)	C. H. Harden, Esq., C.E.	5	1 0	286	..	24·28	155	111
d Chatham (Woolmans Wood)	W. Coles Finch, Esq., C.E.	5	3 0	470	..	21·81?	..	110
D Halling Pumping Station	F. L. Ball, Esq.	5	1 0	75	..	22·88	141	125
D Chatham (Luton W.W.)	W. Coles Finch, Esq., C.E.	5	3 0	88	..	22·04	145	106
D Rainham (Motney Hill)	J. B. Harvey, Esq.	5	1 0	28	..	20·92	145	96
D Rochester (Deanery Gate)	Warwick Stunt, Esq.	5	2 0	50	..	19·34	142	102
D Strood Waterworks (+A)	W. Law, Esq., C.E.	5	1 0	112	..	19·51	145	101
D Stoke Vicarage	Rev. A. E. Ottaway	5	0 10	80	..	15·20	142	95
D Allhallows and Stoke C. School	The Headmaster	5	1 4	200	..	16·73	164	
5.—THAMES—Darent & c. 256 sq. mi.								
d Westerham Town	Met. Water Board	5	1 0	380	..	29·92	..	..
D Westerham Hill Pumping Stat.	Met. Water Board	5	1 0	539	..	31·43	171	123
D Sundridge Rectory	Rev. C. C. Gosselin	5	1 0	280	..	29·14	149	112

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

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KENT—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—THAMES—Darent & c.—(*con.*).								
D Sundridge Pumping Stn.	Met. Water Board	5	1 0	270	..	28·62	152	112
M Sevenoaks (Tonbridge Rd. Res.)	F. Vallins, Esq.	5	1 6	556	..	32·12	..	..
D Sevenoaks (Knole Park)	E. Stubbs, Esq.	5	1 0	500	..	30·68	153	115
d Tatsfield (Betsoms Hill)	Met. Water Board	5	1 0	820	..	33·23	..	..
M Seal (Oak Bank Reservoir)	F. Vallins, Esq.	8	1 0	550	..	29·57	..	..
M Seal (St. Lawrence Reservoir)	F. Vallins, Esq.	8	1 0	665	..	29·45	..	..
M Seal (Kemsing Pumping Stat.)	F. Vallins, Esq.	5	1 0	292	..	29·76	..	..
D Sevenoaks (Chevening Gardens)	Mr. J. C. Sutton	5	1 0	360	..	32·07	161	123
d Knockholt (Kent Waterworks)	Met. Water Board	5	1 0	785	*29·9*	36·11	..	..
D Biggin Hill (Aerodrome)	Assistant-in-Charge	8	1 0	567	31·4	30·55	167	121
d Fairseat (Fairseat House)	Col. W. Pitt, C.M.G.	5	1 0	670	..	29·57	..	..
D Chelsfield (Hewitts)	W. A. Waring, Esq.	5	4 0	476	..	28·41	158	112
D Eynsford Pumping Station	Met. Water Board	5	1 0	100	..	23·92	141	104
D Eynsford Hill	Arthur Mee, Esq.	5	1 0	358	..	23·75	165	92
D Orpington (Kent Waterworks)	Met. Water Board	5	1 0	220	..	26·24	143	109
d W. Wickham (Council Sch.)	L. W. Alen, Esq.	5	1 7	220	..	29·43	(147)	(105)
D W. Wickham (Woodland Way)	D. A. Worthington, Esq.	5	0 9	325	..	31·85	174	116
Crockenhill (Wested Farm)	A. T. Miller, Esq.	5	1 6	331	..	23·32	..	101
D Cobham (Crossways)	Miss F. H. Pye	5	3 0	320	..	25·39	154	107
D Horton Kirby (Court Lodge)	W. Rogers, Esq.	5	1 0	30	..	20·02	125	92
d Beckenham (Park Langley)	G. H. Preston, Esq.	5	1 3	210	..	25·38	..	..
Bromley (Sundridge Avenue)	Dr. H. Wynne Thomas	5	1 0	270	24·7	22·43	..	..
D Bromley (+A)	Borough Engineer	5	1 0	213	24·2	22·44	140	108
D Beckenham (Croydon Rd.)	The Surveyor	8	1 0	110	..	24·84	144	111
d Penge (Recreation Ground)	H. W. Longdin, Esq., C.E.	5	1 1	122	24·6	22·31	..	115
D Anerley (Oakfield Road)	Miss S. Stannard	5	1 5	..	..	21·27	135	111
d Chislehurst (Hawkwood)	Miss M. C. Edlmann	5	1 0	300	..	(21·63)	(137)	(109)
Chislehurst (Holbrook Lane)	W. P. Jones, Esq.	5	1 0	325	25·1	22·31	..	..
D Chislehurst (Scadbury Park)	Mr. B. Orchard	5	1 0	250	24·6	20·81	158	103
d Swanley (Horticultural College)	The Principal	5	1 0	155	..	19·50	143	102
D Southfleet (Hook Place Farm)	J. Barker, Esq.	5	1 0	100	..	20·79	143	100
D Southfleet (Kent Waterworks)	Met. Water Board	5	1 0	82	..	20·23	138	95
D Wilmington (Kent Waterworks)	Met. Water Board	5	1 0	25	..	19·12	148	106
D New Eltham	G. E. Dacey, Esq.	5	1 0	157	..	22·16	156	106
d Gravesend (Trosley Avenue)	F. Pettingale, Esq.	5	1 2	50	..	19·27	..	..
D Dartford (Tower Road)	C. O. Hunt, Esq.	5	0 6	125	..	18·71	154	104
D Stone (City of Lond. Ment. Hosp.)	A. W. Fletcher, Esq.	5	1 0	115	..	18·15	136	101
D Dartford (Sewage Works)	The Resident Engineer	5	1 0	14	..	18·87	140	106
D Erith Sanatorium	Erith U.D.C.	5	1 0	182	..	19·21	142	102
D Erith (Sewage Works)	Erith U.D.C.	5	1 0	13	..	18·01	128	99
D Erith (St. Joseph's Convent)	Erith U.D.C.	5	1 0	213	..	20·43	144	103
D Higham Waterworks	C. H. Clark, Esq.	8	1 0	141	..	21·40	163	103
D Erith (Crossness)	London County Council	14	0 6	16	20·8	18·30	139	101
SUSSEX. (Area, 1,458 sq. mi.)								
1.—LAVANT & C. 175 sq. mi.								
D Aldwick (Greenways)	D. S. Hancock, Esq.	5	1 0	25	..	28·69	150	105
D Bognor Regis (Waterloo Square)	The Town Clerk	8	1 0	24	25·9	28·96	149	111
D Bognor Regis (Albert Road)	W. L. Guermonprez, Esq.	8	1 0	17	..	27·77	165	112
D North Mundham Vicarage	Rev. A. F. H. Outram	5	0 9	0	..	32·94	158	120
D Merston (Abelands)	Miss V. Kennard	5	1 0	24	..	31·19	144	111
D Bosham (Cobnor)	Major S. W. P. Beale	5	1 0	12	..	30·36	152	100
d Bosham (Council School)	The Headmaster	5	1 2	20	..	27·75	..	105
D Chichester (Kingsham Farm) (R)	W. Lawson, Esq.	8	0 10	35	..	31·25	189	117
d Chichester (West Street)	Dr. W. Dick	5	1 0	40	..	29·39	..	105
D Chichester (County Hall)	Stanley Morris, Esq.	5	1 0	45	..	30·46	142	104
d Chichester (Oakwood House)	Mrs. Baring Du Pre	5	1 0	101	..	30·68	..	110
D Emsworth (Westbourne)	W. M. Christy, Esq.	5	1 0	40	..	28·52	147	113

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SUSSEX—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—LAVANT & C.—(*con.*).								
D Funtington House	J. A. Greenwood, Esq.	5	1 0	95	..	31·51	153	117
D Lavant	Miss J. F. Paxton	5	1 0	100	..	30·91	150	114
D Chichester (Goodwood Gardens)	Duke of Richmond&Gordon	5	1 3	133	..	34·59	181	122
D Emsworth (Stansted Park)	Earl of Bessborough	5	2 6	140	..	34·08	212	126
D Emsworth (Watergate House)	W. M. Christy, Esq.	5	1 0	222	..	36·15	155	123
D West Dean Park	W. A. Mackenzie, Esq.	5	1 0	190	..	37·52	145	126
D Chilgrove House	E. L. Woods, Esq.	5	1 0	266	35·0	35·85	160	119
D Compton (Compton House)	Miss K. B. Langdale	5	1 0	263	36·6	36·84	176	122
2.—ARUN. 285 sq. mi.								
D Littlehampton (Met. Station)	Clerk to the U.D.C.	5	1 0	15	..	28·08	149	111
D Rustington (Bracondale Nurs.)	J. Muir, Esq.	5	0 10	30	..	29·08	135	111
D Lyminster Vicarage	Rev. Dr. S. P. Duval	5	1 6	20	..	28·93	146	111
D Arundel (Cross Bush)	Miss M. Orme	5	1 3	125	..	30·16	166	119
D Patching Farm	Michael Drewitt, Esq.	5	1 0	180	30·8	32·02	141	115
D Arundel Castle	The Duke of Norfolk	5	1 0	106	..	33·80	157	120
d Arundel (Houghton)	C. P. Gates, Esq.	5	1 0	60	..	41·12	216	134
Harting (Down Place)	R. G. Blackwell, Esq.	5	1 2	401	..	36·74	151	118
D Storrington (Badgercroft)	P. Herington, Esq.	5	0 6	250	..	43·26	181	135
D Storrington Rectory	Mrs. Faithfull	5	1 1	..	..	40·48	166	136
Bignor	Major G. B. Hill	5	1 0	175	..	41·71	..	..
D Pulborough (Parham)	Hon. Clive Pearson	5	1 6	98	..	38·34	152	122
D Pulborough (Codmore Hill)	Rev. C. Ash	5	2 0	165	..	34·01	179	135
D Petworth Park Gardens	Lord Leconfield	5	1 0	182	..	32·56	146	121
D Tillington (Westmoor)	Mrs. Randall	5	1 0	200	..	33·45	174	129
D Midhurst (Fairview)	Miss P. Eames	5	1 0	..	..	33·31	162	125
D Billingshurst (The Nook)	Chas. F. Rilot, Esq.	5	1 0	120	..	31·71	131	120
D Kirdford (Brownings)	B. de. F. Osmaston, Esq.	5	2 0	100	..	30·90	146	124
D Kirdford (Hills Green)	L. Baker, Esq.	5	1 0	150	..	28·01	139	112
D Liss (Hill Brow)	F. W. Beckford, Esq.	5	1 0	488	..	36·82	185	130
D Horsham (Whites Bridge)	C. G. Atkinson, Esq.	5	1 0	139	..	32·52	163	124
D Lower Beeding (The Warren)	Leicester M. Reed. Esq.	5	0 10	430	..	33·88	160	125
D Horsham (Tower Hill)	Mrs. C. Marsh	5	1 0	220	..	29·91	173	119
D Horsham (Sewage P.S.)	C. G. Atkinson, Esq.	8	1 0	118	..	32·02	172	128
D Horsham (Wimblehurst)	Miss E. M. Allcard	5	1 0	195	30·0	30·92	155	128
Horsham (Dunedin)	A. C. Holland, Esq.	5	1 0	220	..	32·47	..	..
D Rusper (The Nunnery)	Sir Cecil J.B. Hurst, G.C.M.G.	5	1 6	260	..	31·80	167	124
3.—ADUR & C. 237 sq. mi.								
d Peacehaven	Commander W. S. Davenport	5	1 0	119	..	27·41	..	105
D Rottingdean School	Mr. T. A. Sandalls	5	1 0	120	..	28·92	160	112
D Rottingdean (Hillside)	AdmiralH.J.L.Clarke,C.B.E.	5	1 0	60	..	28·26	128	103
D Worthing (Beech House Pk.) (+A)	Medical Officer of Health	8	1 0	25	27·5	27·49	139	107
D Brighton (Old Steyne)	Medical Officer of Health	5	1 0	32	28·1	30·13	137	107
D Portslade (Midways)	E. C. Smith, Esq.	5	1 0	30	..	29·77	156	113
D Hove	Medical Officer of Health	5	1 6	27	..	27·42	141	115
D Hove (Park House)	Guy Michell, Esq.	5	1 0	120	..	33·72	152	119
D Hove (Old Shoreham Rd.)	Chas. Modlen, Esq.	5	0 11	145	..	33·46	153	121
D Brighton (Dyke Road)	R. A. Penney, Esq.	5	1 0	240	..	31·03	137	110
D Lancing College	The Headmaster	5	1 0	120	..	30·51	149	110
D Brighton W. W. (Goldstone Bot.)	A. B. Cathcart, Esq., C.E.	8	1 0	142	..	29·94	152	110
D Brighton W.W. (Lewes Road)	A. B. Cathcart, Esq., C.E.	8	3 10	140	29·9	36·17	157	116
D Brighton W.W. (Shoreham)	A. B. Cathcart, Esq., C.E.	8	1 8	12	..	31·81	168	117
D Brighton W.W. (Mile Oak)	A. B. Cathcart, Esq., C.E.	8	1 3	166	..	30·05	148	112
D Brighton W.W. (Race Hill Res.)	A. B. Cathcart, Esq., C.E.	8	1 3	469	..	36·44	157	115
D Falmer (Brighton W.W.)	A. B. Cathcart, Esq., C.E.	8	1 4	202	..	34·81	160	121
d Patcham (Vale Avenue)	G. Berry Hamlin, Esq.	5	1 0	205	..	34·70	..	..
D Patcham (Brighton W.W.)	A. B. Cathcart, Esq., C.E.	5	1 1	206	..	31·70	151	113
D Washington Vicarage	Rev. A. H. S. Pattrick	5	1 0	251	..	40·99	169	112
D Hassocks (Wilmington Lodge)	C. T. Agar, Esq.	5	1 0	200	..	36·79	148	118
D Hassocks (The Croft)	Harold Taylor, Esq., M.A.	5	1 0	200	..	38·65	154	114
D Keymer	J. Francis Jupp, Esq., C.E.	5	1 0	..	..	36·59	142	118

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SUSSEX—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—ADUR & C.—(*con.*).								
D Henfield (Park House)	Miss H. Dixon Brown	5	1 0	100	..	34·60	171	109
D West Grinstead (Danefold)	Miss T. Gaisford	5	1 0	130	..	31·99	166	127
D Coolham	C. E. Cleeves, Esq.	5	1 0	80	..	34·12	158	123
D Billingshurst (Duncan's Farm)	Miss Edith Beck	5	1 0	130	..	32·55	164	136
D Slinfold (Elmhurst Farm)	Elmhurst Fmg. & Trdg. Co.	5	0 10	200	..	30·46	161	130
4.—OUSE.—224 sq. mi.								
D Seaford (Bowden Ho. School)	J. F. Thomas, Esq	5	1 0	190	..	29·15	149	115
D Seaford (Newlands)	T. Davys Manning, Esq.	5	1 0	100	..	29·22	141	106
D Seaford (Southdown School)	C. W. Perfect, Esq.	5	1 6	120	..	28·99	138	117
D SEAFORD	The Surveyor	5	1 0	140	..	25·79	141	105
D Newhaven (Poverty Bottom W.W.)	F. B. Lumsden, Esq.	8	1 0	51	..	29·61	150	106
d Lewes (Littledene)	Mr. J R. Howard	8	1 0	58	..	33·76	..	96
D Lewes W. W. (Kingston)	J. T. P. Johnston, Esq.	8	1 3	13	..	36·75	184	120
D Barcombe (The Gables)	L. S. F. Woodhead, Esq.	8	1 0	100	..	38·98	160	121
d East Hoathly (Halland Park)	R. Shanks, Esq.	5	1 6	250	..	30·87	..	107
Framfield (High Cross)	Maj. R. L. Thornton, C.B.E.	5	1 0	195	..	31·43	..	..
Newick (Piltdown)	A. C. Jeffery, Esq.	5	2 4	150	..	34·66	..	..
D Newick (Holly Grove)	Mrs. A. K. Slessor	5	0 10	150	..	34·28	151	118
d Uckfield (Lawrence Ho.)	C. G. D. Hoare, Esq., M.A.	5	1 3	125	..	33·12	(159)	(123)
d Uckfield House	Major G. Larnach-Nevill	5	1 0	150	..	31·05	..	107
D Haywards H. (Abbots Leigh)	C. Hales, Esq., J.P.	5	1 0	300	..	31·04	153	114
D Haywards H. (Paddockhall Rd.)	L. E. Hervey, Esq.	5	1 0	260	..	33·14	169	117
Buxted (Strawberry Hall)	C. Rintoul, Esq.	5	1 0	180	..	31·98	153	..
D Mayfield (Five Ashes)	Miss Emily Aston	5	1 0	300	..	31·62	174	121
D Lindfield (The Common)	R. H. Robertson, Esq.	5	1 6	250	..	34·48	175	122
D Uckfield (Fairwarp)	Col. A. E. Barchard	5	0 10	475	..	33·23	157	127
D Oldlands Hall (R)	Sir B. Eckstein, Bart	8	3 0	400	..	35·29	163	126
D Horsted Keynes (Holy Well P.S.)	F. Martin, Esq., C.E.	8	1 9	124	..	32·41	144	115
D Ardingly (Lywood House)	G. Forrester Scott, Esq.	5	0 9	240	..	33·59	175	126
D ARDINGLY (Wakehurst Place)	Rt. Hon. Lord Wakehurst	8	1 9	437	..	36·82	172	131
D Horsted Keynes (Birchgrove)	Miss G. C. Price-Davies	5	1 0	400	..	35·92	193	127
D Balcombe (Lullings)	Mrs. M. Holland	5	1 0	348	..	36·86	169	132
D Balcombe (The Gables)	Mr. G. J. Warren	8	1 3	358	..	38·63	173	139
D Balcombe (Stockcroft)	Dr. R. Newton	5	1 1	341	..	36·72	167	133
D Balcombe (Waterworks)	F. Martin, Esq., C.E.	8	1 0	467	..	35·90	162	134
D Balcombe (Highley Manor)	Mr. B. T. Brooks	8	1 6	420	..	36·59	177	126
D West Hoathly (Stonelands)	J. Godwin King, Esq.	5	1 0	450	..	36·24	160	133
5.—CUCKMERE & C. 189 sq. mi.								
D BEACHY HEAD (C. Guard Stn.)	The Chief Officer (M.O.)	8	1 0	502	..	33·08	157	119
D EASTBOURNE (Wilmington Sq.)	Medical Officer of Health	5	1 0	35	30·7	32·34	151	111
D Eastbourne (Motcombe Gdns.) (A)	Major L. Roseveare, C.E.	11	1 7	59	..	31·54	141	109
D Eastbourne (Arundel Road)	Miss G. J Woodd	8	1 6	86	..	31·62	154	120
D Friston	Eastbourne W.W.	8	1 0	104	..	29·59	139	112
D Jevington	Eastbourne W.W.	8	1 0	274	..	34·08	135	122
d Litlington	Eastbourne W.W.	8	1 0	19	..	31·30	..	120
D Willingdon Sewage Farm	R. W. Fovargue, Esq.	5	1 0	24	..	32·32	152	116
D Pevensey Pumping Station	R. W. Fovargue, Esq.	5	1 0	12	..	28·11	141	112
D Pevensey Bay Pumping Station	R. W. Fovargue, Esq.	5	1 0	7	..	30·02	142	115
D Westham (Rattle Rd.)	Rev. H. H. Breton	8	1 8	50	..	33·19	163	126
D BEXHILL (EGERTON PARK)	The Boro' Council (H. J. Sargent)	8	1 0	12	..	27·69	139	108
D ST. LEONARDS (Gensing Gardens)	The Town Clerk	8	1 0	178	28·4	29·26	178	119
D Hailsham (North Street)	R. Matthews, Esq.	5	1 0	105	..	32·20	171	120
D Hailsham (Magham Down)	E. M. Bear, Esq.	5	1 0	90	..	29·75	133	110
D Hazards Green (Pumping Station)	Bexhill W.W.	5	1 7	74	..	27·04	147	109
d Hastings (Beechwood)	N. Lang Smith, Esq.	8	1 0	128	..	29·74	158	118
D Hastings (Newgate)	S. Little, Esq., C.E.	8	1 0	243	..	27·30	154	113
D Hastings (Clive Vale)	A. E. Moon, Esq.	5	1 0	328	..	28·27	169	110
D Hastings (Halton Reservoir)	S. Little, Esq., C.E.	5	1 0	294	..	27·86	148	114
D Hastings (Fairlight Reservoir)	S. Little, Esq., C.E.	5	1 0	515	..	30·96	152	113
D Hollington (High Beech Gdns.)	R. H. Crockford, Esq.	5	1 0	400	..	30·72	149	121
D Battle (Forewood W.W.)	S. Little, Esq., C.E.	5	1 0	50	..	32·56	155	113
D Cowbeech (Pumping Station)	Bexhill W.W.	5	1 7	100	..	28·74	138	105
D Horam (Coxlow)	Miss P. C. Harrison	5	1 0	260	*32·2*	30·82	165	112
D Heathfield (The White Cottage)	J. F. Leigh Clare, Esq.	5	1 0	500	..	31·50	167	121

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

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SUSSEX—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
6.—ROTHER. 194 sq. mi.								
D **Hastings (Fairlight, Machico)**	P. G. Lock, Esq. M.A., M.R.C.S.	5	1 0	125	..	27·34	163	114
d Battle (Caldbec)	A. H. Neve, Esq.	5	0 11	350	..	32·70	..	117
D **Battle (The White Cottage)**	Rev. E. J. Morgan	5	1 0	320	..	34·16	171	121
D Battle (Netherfield)	Thos. W. C. Terry, Esq.	5	1 0	420	..	33·99	163	121
d **Udimore (The Wick)**	Major R. P. Mair	8	1 0	92	***28·7***	31·39	..	112
D **Rye (The Point)**	W. Gay, Esq.	5	1 0	120	..	30·68	150	116
D **Brightling Park**	T. P. Tew, Esq.	5	1 0	545	..	36·03	161	120
d Robertsbridge (Darvell Hall San.)	Medical Superintendent	5	3 0	100	..	30·71	..	108
D **Peasmarsh (Woodside)**	A. W. Rickards, Esq.	5	0 8	100	..	31·79	141	121
d **Rye (Iden)**	Admiral Sir Aubrey Smith	5	1 0	150	..	26·72	..	106
d **Heathfield (Barklye)**	W. H. Masson, Esq.	5	1 0	500	32·5	37·49	..	137
D Northiam (Great Dixter)	Quentin Lloyd, Esq.	8	1 0	209	..	32·16	167	121
D Burwash (Crowhurst Bridge)	Heathfield Dist. Water Co.	5	1 3	97	..	30·30	147	110
D Mayfield (Berkeley Cottage)	Lt.-Col. A. H. Wolley-Dodd	5	1 4	420	..	34·63	148	123
D **Ticehurst (Stonegate)**	W. J. Wheeler, Esq.	5	1 0	230	..	35·33	193	127
D **Wadhurst (Downgate)**	Rev. E. P. Gatty	5	1 6	300	..	34·28	164	115
7.—MEDWAY. 117 sq. mi.								
D **Rotherfield (Horsegrove Fm.)**	F. W. Shaw, Esq.	5	1 0	528	..	37·88	160	119
D **Rotherfield (Roslyn)**	Miss E. A. Foyster	5	1 0	524	..	40·17	228	127
D **Crowborough (Jarvis Brook)**	Crowborough Water Co.	5	1 0	325	..	38·74	158	122
D Crowborough (Harecombe)	W. Morrison, Esq.	5	1 0	680	..	36·53	168	129
D **Crowborough (Beacon School)**	R. W. Hunt, Esq.	5	1 3	750	..	39·85	172	123
D Crowborough (Beaconstone)	A. K. Gordon, Esq.	5	1 0	794	..	37·84	171	122
d Crowborough (The Beacon)	A. R. Allcroft, Esq.	5	1 0	796	..	39·12	..	136
D Tunbridge Wells (Cousley Wd.)†	A. Wilkin, Esq.	5	1 0	416	..	30·29	160	117
D **Forest Row (Hindleap Lodge)**	Mr. G. Warner	5	1 6	620	..	32·40	156	129
Forest Row (Charlwood Farm)	A. Hoare, Esq.	5	2 0	350	..	41·11	146	..
D **Forest Row (Wirksworth)**	L. Gibbs, Esq.	5	1 0	217	..	36·57	172	119
D **Frant (Hazelhurst)**	I. W. Bennett, Esq.	5	1 0	450	..	34·61	167	116
D **Frant (Henley House)**	Rev. E. Malden	5	1 6	440	***32·3***	33·33	171	124
d **Frant (Eridge Castle)**	Mr. A. Wilson	5	1 0	400	..	35·63	..	137
Frant (Highfield)	H. S. Eeles, Esq.	5	1 0	413	..	32·12	..	..
D **Groombridge (Crossways)**	Capt. D. P. A. Gray	5	1 0	260	..	31·98	164	121
D Hartfield (Bolebroke)	P. R. Mann, Esq.	5	1 0	175	..	31·69	149	121
D Crawley Down (Grange Hill)	Miss L. T. A. Buckley	5	0 10	450	..	37·06	146	125
D **E. Grinstead (Brockhurst Obsy)**	W. S. Franks, Esq.	8	1 0	435	***32·9***	36·25	185	122
8.—THAMES—Mole. 27 sq. mi.								
D Turners Hill (The Old Manse)	Miss R. M. Ravenshaw	8	1 6	500	..	33·32	174	126
D **Worth (Worth Lodge)**	C. W. Nix, Esq.	5	1 0	340	***31·9***	36·58	185	129
D **Crawley (Orleton Lodge)**	B. Longley, Esq.	8	1 0	260	..	32·00	146	125
9.—THAMES—Wey. 10 sq. mi.								
D **Milland House**	S. Thompson, Esq.	5	1 0	425	..	34·06	159	121
D **Liphook (Ripsley)**	W. D. Bosanquet, Esq.	5	1 0	400	..	35·74	166	130
HAMPSHIRE. (Area 1,622 sq. mi.)								
1.—ISLE OF WIGHT. 150 sq. mi.								
D St. Catherine's Point (C. G. Stn.)	Station Officer (M.O.)	8	1 8	150	..	29·00	132	108
d **Blackgang (H.M. Coastguard)**	Mr. H. W. Hawkes	5	1 0	420	..	29·47	..	106
D Ventnor (Royal National Hos.)	The Matron	5	1 0	59	28·9	30·09	160	105
D Ventnor (Cemetery)	The Surveyor	5	1 0	445	..	30·60	151	107
D **Shanklin (Pomona Road)**	The Town Surveyor	8	1 0	199	..	35·36	154	112
D Brighstone (The Bungalow)	J. V. Keen, Esq.	5	1 0	140	..	32·48	143	120
d **Brighstone (Pitt Place)**	A. A. H. Wykeham, Esq.	5	1 7	200	..	28·28	..	..
D Sandown (Sandham Gds.)	The Town Clerk	8	1 0	13	..	30·63	159	112
D **The Needles (Golf Club)**	Mrs. Newnham	5	1 0	350	..	29·21	145	106
D Totland Bay (Aston House)	Hotel & Pier Co. (J. Dover)	8	1 0	140	28·5	28·87	153	107
D **Freshwater (Pumping Station)**	J. Dover, Esq.	8	1 0	10	..	31·65	168	115
D Newport (The Mall)	Miss Morey	5	1 0	48	..	36·72	153	117

† Formerly called Wadhurst (Lower Cousley Wd.).

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

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HAMPSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—ISLE OF WIGHT—(*con.*).								
D Ryde (West Street)	W. H. Salter, Esq.	5	1 0	170	..	33·50	170	122
D Ryde (Buckland Grange)	Lt.-Col. Sir Hugh Daly	5	1 0	90	..	33·19	189	120
D Ryde (Esplanade Gardens)	Borough Engineer	5	1 9	13	..	29·58	150	113
D Wootton (Oak Lawn)	R. W. Hutton, Esq.	5	0 9	80	..	36·14	159	118
D Cowes W.W. (Broadfields)	J. W. Webster, Esq., C.E.	5	1 0	161	..	30·51	136	111
D Osborne	The House Governor	5	1 0	177	..	35·33	180	125
D East Cowes (Spring Hill)	Sir George Shedden	5	1 0	123	..	30·77	156	117
2.—STOUR. 32 sq. mi.								
D Bournemouth (East Cliff)	Miss M. Penrose, B.Sc.	8	1 0	120	..	25·67	154	105
D Bournemouth (Vale View)	The Corpn.(C.Dales, F. R. Met. Soc.)	5	1 0	139	31·5	26·65	143	108
D Bournemouth (East Avenue)	J. E. Hewitt, Esq.	5	1 0	142	..	27·12	153	111
D Bournemouth (Talbot Woods)	H. Constantine, Esq.	5	1 0	110	..	28·18	151	112
D Christchurch (Hurn Court)	The Earl of Malmesbury	8	1 3	19	..	31·67	164	131
D Ringwood (Athol Lodge)	S. O. Ferry, Esq.	5	1 0	60	..	28·25	163	124
3.—EAST AVON & C. 114 sq. mi.								
D Christchurch (Harrow Lodge)	R. C. Bacon, Esq.	8	1 0	135	..	32·88	166	120
D Ringwood (Bisterne)	Major J. D. Mills	8	1 2	45	..	33·10	175	121
D Ringwood (Ashley)	Miss M. E. Williams	5	1 0	100	..	34·25	200	116
D Ringwood (Crow Hill)	Mrs. H. F. Rawstorne	5	1 0	250	..	32·53	167	125
D Ringwood (Hangersley)	Col. E. G. St. Aubyn, D.S.O.	5	0 9	200	..	29·44	166	126
d Ringwood (Grey Friars)	R.W. Christy, Esq.	5	1 0	50	..	28·55	..	107
D Ringwood (Linwood)	Dr. F. H. Haines	5	0 9	138	..	32·57	211	133
D Fordingbridge (Cuckoo Hill)	Heywood Sumner, Esq.	5	1 0	150	..	33·69	180	127
D Fordingbridge (Dockens)	E. W. Poore, Esq.	8	1 0	140	..	31·64	162	126
D Fordingbridge (Furze Hill)	G. A. Smith, Esq.	5	0 5	150	..	32·66	161	129
D Fordingbridge (Oaklands)	S. B. Rake, Esq.	8	1 0	135	31·7	33·55	164	123
4.—TEST & SOLENT. 551 sq. mi.								
D Milford-on-Sea (Salt Grass)	A. C. G. Heygate, Esq.	5	1 0	6	..	31·15	150	110
D Milford-on-Sea (Rollrights)	Dr. A. Wood	5	1 0	50	..	27·86	142	108
D Lymington (The Salterns)	P. A. Ouvry, Esq.	5	1 0	4	..	30·90	154	110
D Lymington (Woodmancote)	Major G. M. Harding	5	1 0	70	..	33·53	162	111
D New Milton (Manor Rd.)	A. J. Sturmey, Esq.	5	0 9	140	..	33·92	166	117
D Sway (Gordleton)	W. F. Wright, Esq.	5	1 6	102	..	33·93	147	114
d Boldre (Vicars Hill Lodge)	H. H. Wyatt, Esq.	5	2 0	95	..	34·82	..	119
D Sway (Sway Wood)	J. Dixon, Esq.	5	1 0	140	..	34·67	152	124
D Boldre (Battramsley Close)	Dr. H. A. Des Voeux	5	1 1	119	..	35·11	142	120
d Exbury	L. N. de Rothschild, Esq.	5	1 0	85	..	33·10	..	119
D Brockenhurst (Weirs End)	Col. C. Mansel-Jones, V.C.	5	1 0	45	..	35·18	169	129
D CALSHOT (Aerodrome) (+A)	Officer-in-Charge	8	1 0	8	25·5	30·58	153	116
D Beaulieu (Moonhills Gate)	Lt.-Comdr. A. Betts-Brown	5	1 0	130	..	34·02	194	124
D Burley (Sandys)	G. Mason, Esq.	5	1 0	150	..	32·95	166	129
D Hythe (Buttsash Lane)	G. H. Baker, Esq.	5	1 0	130	..	32·67	163	124
D Fawley (Cadland Park)	The Head Gardener	8	4 6	100	..	32·30	184	129
D Hythe (Dibden House)	Lt.-Col. H. W. Kettlewell	5	1 0	85	..	33·39	171	131
D Cadnam (Canterton Manor)	Miss Jeffreys	5	1 0	125	..	33·41	166	134
D Bartley (The Nurseries)	G. H. Dalrymple, Esq.	5	1 2	100	..	34·38	160	129
D Totton (Shorne Hill)	The late Mrs. Rennie	5	1 0	130	..	34·72	166	136
D SOUTHAMPTON (East Park)	Director Ordnance Survey	8	1 0	64	30·9	31·51	165	136
M Southampton Common Res.	J. Hawksley, Esq.	5	1 0	193	..	28·58	..	..
D Romsey (Embley Gardens)	J. J. Crosfield, Esq.	5	1 0	130	..	28·81	155	116
D Romsey (Harefield)	Lt.-Col. W. J. Langford	5	1 0	120	..	28·68	153	125
D Melchet Court	Mr. R. Currie	5	3 0	207	..	31·03	132	114
d Romsey (Timsbury Manor)	A. R. Wilson-Wood, Esq.	5	0 10	75	..	28·05	..	118
D Romsey (Timsbury P.S.)	J. Hawksley, Esq.	5	1 0	92	..	29·56	147	120
M Upper Somborne	Charles Alleway, Esq.	8	1 0	250	..	31·06	..	..
D Stockbridge (Houghton Lodge)	Mr. G. Morris	5	1 0	112	..	30·26	144	120

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
HAMPSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—TEST & SOLENT—(*con.*).								
d Crawley (Chilbolton Down)	G. Beale Esq.	8	1 2	350	..	(31·81)	(138)	(124)
D Stockbridge (Leckford Estate)	C. T. Bamber, Esq.	5	1 0	250	.	30·26	160	120
d Wonston (St. Olaf's)	I. H. Gray, Esq.	5	1 0	200	..	29·34	..	116
D Wonston (Upton House)	H. J. Gardiner, Esq.	5	1 0	229	..	31·74	178	125
D Abbots Ann (The Old Manor)	Miss E. E. de Paravicini	5	0 9	225	..	26·91	156	113
D Andover (Sewage Works)	W. C. Jerome, Esq.	8	1 0	182	..	27·34	157	117
D St. Mary Bourne (Bournside)	Prof. C. V. Boys, F.R.S.	5	1 0	300	..	27·88	164	126
D St. Mary Bourne (Spring Hill)	Mrs. H. A. Boys	5	1 4	300	..	28·11	137	116
D Worting (Manydown Park)...(R)	Col. A. S. Bates, D.S.O.	5	1 0	415	..	29·84	159	121
Hurstbourne Tarrant (Rookery)	R. E. C. Burder, Esq.	5	1 0	331	..	30·08	..	..
D Whitchurch (Dunley Manor)	Sir Alfred Herbert	5	1 0	500	..	30·86	171	128
D Linkenholt Manor	R. Dudley, Esq.	5	5 3	700	..	30·11	159	132
5.—ITCHEN & SPITHEAD. 422 sq. mi.								
D Alverstoke (Monckton House)	Major J. Blake	5	1 3	15	..	29·39	160	121
D Alverstoke (Glencoe)	J. G. Thomas, Esq.	5	1 3	20	..	29·19	159	124
D Gosport	Borough Surveyor	8	1 0	30	..	28·33	137	116
D Portsmouth (Victoria Park)	Medical Officer of Health	5	1 0	15	27·7	29·85	159	122
D Hayling Island (Richmond Ho.)	E. S. McEuen, Esq.	5	1 2	16	..	27·16	144	113
D Portsmouth (Eastney)	The City Engineer	8	1 0	20	..	26·12	146	111
D South Hayling (C. of E. School)	H. J. Earney, Esq.	5	1 6	10	..	25·52	148	111
D Lee-on-Solent (Edinburgh Ho. Sch.)	Trevor J. Tatham, Esq.	5	1 0	15	..	27·16	139	116
d Hook-cum-Warsash	E. M. Biggs, Esq.	5	1 0	50	..	30·03	..	118
d Portchester (Noel Cottage)	Miss R. M. Frost	5	1 0	10	..	24·84	..	..
D Farlington (Pump. Stn.) *new g*	D.Halton Thomson,Esq.,C.E.	5	1 0	78	..	29·29	155	115
D Farlington (Filter Works) *new g*	D.Halton Thomson,Esq.,C.E.	5	1 0	157	..	28·26	150	112
D Havant (Portsmouth W.W.)	D.Halton Thomson,Esq.,C.E.	5	1 0	25	*26·7*	26·32	149	109
d Havant (Wade Court)	W. E. Sotheby, Esq.	8	1 0	17	..	30·25	..	109
d Fareham (Fareham House)	W. S. Stevenson, Esq., M.D.	5	1 6	30	..	30·15	..	118
D Southwick (Pinsley Lodge)	D. Halton Thomson, Esq., C.E.	5	1 0	150	..	31·69	153	118
D Fareham (Roche Court)	Admiral Sir W. De Salis	5	1 0	103	..	31·76	162	123
D Itchen Sewage Works	S. G. Stanton, Esq., C.E.	5	5 8	13	..	28·68	148	117
D Cowplain (Forest View)	H. C. Pearson, Esq.	5	5 0	222	..	31·49	175	119
Idsworth (Water Tower)	D.HaltonThomson,Esq.,C.E.	5	1 0	202	..	32·65	..	..
Southwick (Upper Beckford Fm.)	D. Halton Thomson, Esq., C.E.	5	1 0	112	..	32·98	..	..
d Wickham (The Lower House)	M.-Gn.Sir C.H.Powell,K.C.B.	5	1 4	100	..	34·11	..	122
D Southampton (Portswood)	S. G. Stanton, Esq., C.E.	5	1 9	10	..	28·04	144	121
D Botley (Botley Hill)	Lady Jenkyns	5	1 6	36	..	32·69	162	127
Botley (Uplands Farm)	Wilmot H. Yates,Esq.	5	1 0	60	..	33·72	163	134
D Curdridge (Kitnocks House)	Major C. F. Randolph	5	1 0	185	..	32·12	185	130
Catherington Reservoir	D. Halton Thomson, Esq., C.E.	5	1 0	428	..	38·10	..	..
D Swanmore (Holywell House)	Mrs. M. Portal	5	1 6	175	..	32·88	167	134
D Hambledon (Whitedale)	D. Halton Thomson, Esq., C.E.	5	1 0	223	..	37·28	180	128
D Soberton (Mislingford)	E. T. Hildred, Esq., C.E.	5	1 0	136	..	32·87	156	119
D West End (Oaklands)	Capt. P. C. Pearson, R.N.	5	1 0	45	..	30·40	156	132
D Bishops Waltham (Park Ho.)	A. F. Hardy, Esq.	5	1 3	170	..	32·40	194	122
D Swanmore House	Mr. G. Ellwood	5	0 10	395	..	37·13	169	124
D Droxford (Uplands)	Miss C. E. King	5	1 0	279	..	37·95	184	132
d Otterbourne (Kingfisher Lo.)	Major T. T. Phelps	5	0 9	68	..	(31·48)	..	(132)
D Otterbourne W.W.	J. Hawksley, Esq.	5	1 0	113	..	31·80	179	127
D Twyford (Pumping Station)	J. Hawksley, Esq.	8	1 0	139	..	32·00	168	120
d Twyford (Church Farm Hse.)	The late Fleet Surgeon S. Conner, R.N., M.B.	8	1 0	180	..	28·05 31·55	.. ..	118 ..
East Meon (Burnside)	H. A. Gilmour, Esq.	5	1 5	..	..	40·70	..	..
D Winchester (Shawford)	J. A. Rooke, Esq.	5	1 0	250	..	33·00	157	120
D Hursley (Merdon Manor)	Capt. G. J. R. Cooper	5	1 0	360	..	29·08	156	121
D Hursley Park	Sir G. A. Cooper, Bart.	8	1 0	240	..	33·54	162	134

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
HAMPSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—ITCHEN & SPITHEAD—(*con.*).								
D **Compton (Kennington)**	**J. Durst, Esq.**	**5**	**1 1**	**250**	..	32·49	165	119
w Kilmeston Manor	W. J. Heathcote, Esq.	5	1 0	325	..	(38·17)	..	..
D Privett (The Vicarage)	Rev. F. P. Synge	5	2 8	600	..	41·88	197	138
D **Winchester (St. Cross)**	**G. M. Mathews, Esq.**	**5**	**1 0**	**135**	..	31·80	149	123
D Winchester (High Street)	Kenneth E. N. Williams, Esq.	5	1 0	200	..	34·05	164	121
D Winchester (East Hill)	Mrs. E. Wilde	5	1 0	256	..	29·11	184	123
d **West Tisted Manor**	**Capt. Nelson Zambra, M.C.**	**5**	**1 3**	**650**	..	39·88	..	130
Winchester (Northgate Place)	Miss A. M. Johnson	8	1 3	170	..	33·36	183	..
D **Ovington Rectory**	**Rev. H. L. Atkins**	**5**	**1 0**	**221**	**33·2**	38·98	167	130
D Winchester (Kings Worthy)	Miss R. P. Woodard	5	1 0	304	..	31·63	165	117
D **Itchen Abbas (Chilland)**	**W. J. Arnold, Esq.**	**5**	**1 3**	**200**	***32·7***	33·93	175	130
D **Itchen Abbas (Itchen Lodge)**	**Lt.-Col. R. V. Savile**	**8**	**0 9**	**200**	..	31·51	172	124
D Alresford Place†	Percy Laming, Esq.*	5	1 0	300	..	32·26	163	131
D Winchester (Worthy Down Aero) (+A)	Meteorological Officer	8	1 0	275	29·5	32·81	166	127
6.—ARUN. 82 sq. mi.								
D **Petersfield (Weston)**	**Capt. P. W. Seward**	**5**	**1 0**	**330**	..	40·94	154	140
Petersfield (Monks Barn)	F. G. Padwick, Esq.	5	1 0	300	..	37·32	180	125
D **Petersfield (Tilmore)**	**L. J. Tatham, Esq.**	**5**	**1 0**	**250**	..	35·37	177	128
D **Liss (Heathmount)**	**R. A. Bosanquet, Esq.**	**5**	**1 3**	**490**	..	34·89	176	128
d Liss (Kippences)	Rev. W. L. de B. Thorold	5	0 9	250	..	34·49	..	119
D **Liss (Hawkley Hurst)**	**T. Clive Davies, Esq.**	**5**	**0 11**	**422**	..	40·65	181	138
D **Greatham (Manor House)**	**Miss I. L. Coryton**	**5**	**1 0**	**260**	..	36·29	156	123
D **Greatham (Le Court)**	**Sir Heath Harrison, Bart.**	**5**	**0 9**	**350**	..	36·11	158	128
7.—THAMES—Wey. 92 sq. mi.								
D **Petersfield (Stoner Hill)** (+A)	**C. J. P. Cave, Esq., J.P.**	**5**	**1 0**	**748**	..	40·75	181	136
D **East Tisted (Rotherfield Park)**	**Capt. J. B. Scott**	**5**	**1 0**	**550**	..	37·29	170	130
D **Newton Valence Vicarage**	**Rev. A. C. Maclachlan**	**5**	**1 0**	**586**	..	35·17	197	126
D **Newton Valence (Shotters)**	**Major W. H. Chawner**	**5**	**1 2**	**600**	..	34·79	166	133
D **Newton Valence Place** (R)	**Rear-Adm. E. Jervoise, C.B.E.**	**8**	**1 5**	**615**	..	35·19	190	136
D **Selborne (The Wakes)**	**Mrs. Bibby**	**5**	**1 0**	**400**	..	37·66	185	136
D **Grayshott**	**Mrs. Lyndon**	**5**	**1 0**	**661**	**33·2**	34·62	177	130
D **Alice Holt Forest**	**Forestry Commission**	**8**	**1 0**	**264**	..	30·56	151	120
8.—THAMES—Loddon. 164 sq. mi.								
d **Swainshill**	**S. G. Weller, Esq.**	**5**	**1 7**	**550**	..	31·30	..	110
D Long Sutton (Agric. Coll.)	The Lord Wandsworth Ag. Coll.	5	1 0	479	..	27·85	160	120
d **South Warnborough (Vine Cot.)**	**Mrs. Gawne**	**5**	**1 0**	**416**	..	28·73	..	..
D **Upton Grey (Hoddington Ho.)**	**Lord Basing**	**5**	**1 0**	**378**	..	28·12	143	126
D **Basingstoke (Upton Grey Ho.)**	**G. W. Hayes, Esq.**	**5**	**1 0**	**400**	..	28·08	153	124
D Aldershot Waterworks	Mid-S. Dist. Utility Co.	5	1 0	251	..	23·96	152	119
D Aldershot Reservoirs	Mid.S. Dist. Utility Co.	5	0 7	393	..	24·08	166	116
D **Odiham (Mill House)**	**W. M. Dean, Esq.**	**5**	**1 0**	**241**	..	24·63	140	114
d **Odiham (Sewage Works)**	**Hartley Wintney R.D.C.**	**5**	**1 0**	**270**	..	24·98	163	119
D **Greywell (Pumping Station)**	**S. G. Weller, Esq.**	**5**	**1 0**	**258**	..	22·89	184	120
D **Hook (Nately Hatch)**	**R. C. Mallock, Esq.**	**5**	**1 0**	**328**	..	26·48	173	117
Fleet (Winchfield)	Major R. E. Fryer	5	1 1	250	..	20·83	..	..
D Fleet (Home Wood)	Mrs. L. M. Kent	5	1 0	300	..	22·55	146	110
D **Sherborne St. John**	**Col. G. W. Haslehurst**	**5**	**1 0**	**260**	**29·0**	27·51	163	113
D **Rotherwick (Tylney Hall)**	**Major Sir H. R. Cayzer, Bt.**	**5**	**1 0**	**250**	..	25·73	147	112
D **Hartley Wintney (Council Offices)**	**Sanitary Inspector, R.D.C.**	**5**	**1 0**	**202**	..	21·03	143	103
D **Hartley Wintney (Warren Heath)**	**Sanitary Inspector, R.D.C.**	**5**	**1 0**	**220**	..	23·19	149	113
D South Farnborough (R.A.E.) (+A)	Meteorological Officer	8	1 0	237	26·1	24·31	153	116
D Winchfield (Elvetham Park)	Mr. T. J. Brownjohn	8	1 4	217	..	22·00	161	114
D **Stratfield Turgis (Byland's Cottage)**	**Miss D. Page-Roberts**	**5**	**1 0**	**218**	..	22·60	162	111
D **Heckfield (Park Corner)**	**Miss V. Martineau**	**5**	**1 2**	**257**	**24·3**	24·23	133	102

* Per A. E. Broad, Esq.

† Previously called Old Alresford (The Gables).

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

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			in.	*ft. in.*	*ft.*	*in.*	*in.*		
	HAMPSHIRE—(*con.*).								
	9.—THAMES—Kennet. 65 sq. mi.								
D	Highclere (Castle Gardens)	Mr. A. W. Blake	5	1 6	500	..	30·38	170	129
D	Highclere (Black Ford)	W. A. Turner, Esq.	5	1 0	439	..	30·92	165	125
D	Highclere (Adbury Pk. Gdns.)	The Head Gardener	5	1 0	350	..	28·85	167	124
d	Silchester House	T. M. Hartley, Esq.	5	1 0	325	..	24·16	..	..
	BERKSHIRE. (Area, 722 sq. mi.)								
	1.—TEST. 2 sq. mi.								
	2.—THAMES—Bourne. 15 sq. mi.								
	Sunninghill (Frognal)	Mr. D. Chaplin	5	1 0	200	..	24·06	..	..
D	Ascot (Heatherwood Hospital)	The Medical Superintendent	5	1 0	320	..	23·21	167	114
D	Sunninghill (Blacknest P.S.)	E. J. Toy, Esq.	8	1 0	130	26·0	22·31	166	116
d	Sunninghill (Little Paddocks)	Col. J. N. Horlick, M.C.	5	1 0	200	27·0	(22·57)	(160)	(124)
	3.—THAMES—Loddon & c. 162 sq. mi.								
D	Sandhurst (Eagle House)	J. H. A. Love, Esq.	5	1 0	280	..	23·51	158	115
D	Wellington College	A. L. Payne, Esq.	5	1 0	290	26·4	24·96	158	119
d	Broadmoor Asylum	The Medical Superintendent	5	1 0	300	27·6	23·23	..	111
D	Wokingham (Bucks Copse)	C. W. Marks, Esq.	5	1 0	174	24·7	22·90	141	108
d	Wokingham (Appin Lodge)	Rev. W. N. Blakeney	8	0 10	200	25·1	22·94	..	107
D	Wokingham (Bear Wood Gdns.)	M. Goddard, Esq.	8	1 0	200	..	23·35	158	115
D	Wokingham (Sindlesham Ho.)	Mr. W. Balcombe	5	4 6	200	25·4	22·03	150	106
D	Wokingham (Winnersh Nursery)	W. Bates, Esq.	5	1 0	180	..	22·41	163	110
D	Winkfield (Ryemead)	Mrs. Aubrey Elliott	5	0 10	220	25·8	23·64	163	114
D	Winkfield (Maidens Green)	R. Crosbie-Hill, Esq.	5	1 0	210	26·0	24·02	174	114
D	Warfield (Jealott's Hill Farm)	Imp. Chemical Ind., Ltd.	5	1 0	220	25·8	23·43	157	117
d	Windsor (Forest Park Gdns.)	G. W. Briars, Esq.	5	0 10	150	..	23·71	..	124
D	Shurlock Row (Crossways)	John P. Lee, Esq.	5	0 9	149	..	23·23	159	107
D	Hurst (Haines Hill)	H. Swanborough, Esq.	5	0 7	155	..	21·93	139	112
D	Sonning-on Thames (The Deanery)	Capt. N. J. Bengough	5	0 9	120	24·6	21·77	155	111
D	Windsor (Royal Gardens)	Mr. C. H. Cook	5	1 0	88	24·9	22·97	178	112
D	Twyford (Hare Hatch)	Messrs. J. Waterer, Sons & Crisp, Ltd.	5	1 0	180	..	22·08	146	108
D	Bray (Braimel)	N. Vaslet, Esq.	5	1 0	75	..	21·73	146	108
d	Maidenhead (The New Hall)	Mrs. Torkington	5	1 0	160	27·2	23·66	..	122
	Pinkney's Green	R. P. Lord, Esq.	5	0 10	240	26·7	23·13	..	..
D	Maidenhead (Boulter's Lock)	The Thames Conservancy	5	1 6	82	..	21·32	159	112
D	Remenham Hill (Wedmore)	Lt.-Col. C. D. Burnell, D.S.O.	5	1 0	300	27·5	24·12	154	118
D	Hambleden Lock	Mr. T. E. Wise	5	2 0	107	27·0	23·15	167	115
D	Hurley House	H. M. Farrer, Esq.	5	1 0	105	..	22·70	145	106
	4.—THAMES—Kennet & c. 224 sq. mi.								
D	Inkpen (Manor Farm)	A. A. Lawrence, Esq.	5	1 5	450	31·6	28·71	151	129
D	Inkpen (New Mill)	G. C. Goodhart, Esq.	5	1 0	475	32·5	29·43	153	122
d	Hampstead Marshall (Redhill)	Mrs. Lewis	5	1 0	400	29·5	28·81	..	120
D	Mortimer (Wokefield Park)	Dr. A. Palmer	5	1 0	220	25·2	23·65	157	122
D	Mortimer (Oakfield)	Rev. G. G. Skipwith	6	1 0	200	26·1	25·11	188	124
d	Brimpton (Little Park)	Lady Delia Peel	5	0 8	340	..	24·36	..	..
D	Brimpton (Stonehouse)	F. Hadden, Esq.	5	0 7	350	27·5	25·28	148	115
	Kintbury (Wallingtons)	A. S. Gladstone, Esq.	5	1 0	360	..	26·00	..	..
D§	Newbury (Greenham Common)	Miss E. T. Price	5	1 0	327	29·0	25·68	159	120
D	Newbury (Wash Hill)	C. F. B. Marshall, Esq.	5	1 0	385	31·4	25·64	169	118
D	Newbury (Wash Hill Ho.)	E. P. Plenty, Esq.	5	1 0	390	29·1	27·37	154	115
D	Newbury (Tydeham)	The late J. H. Spackman, Esq.	5	1 0	400	30·1	(24·76)	(161)	(116)
D	Shinfield (University Col. Farm)	Prof. J. A. Crowther	5	1 0	200	..	23·22	153	109
D	Bucklebury Place	Mr. J. E. Henshall	5	1 0	409	..	22·38	150	110
D	Reading W.W. (Bath Road)	L. C. Walker, Esq., C.E.	5	1 0	218	24·4	21·70	178	109
D	Reading (Tilehurst)	Miss M. W. Latham	5	2 0	200	25·6	22·96	169	117
D	Reading (Forbury Gardens)	A. S. Parsons, Esq., C.E.	5	1 5	143	24·9	21·03	162	101
D	Reading (University College)	Prof. J. A. Crowther	5	1 0	152	..	22·21	171	113
d	Reading (Caversham Lock)	The Thames Conservancy	5	1 6	123	..	20·71	..	107
d	Chieveley (Priors Court)	G. E. H. Palmer, Esq.	5	1 0	403	..	·22·09	..	108
d	Peasemore House	Mrs. E. Brown	5	1 6	490	..	21·97	..	..

§ Gauge somewhat over-sheltered.

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BERKSHIRE—(*con.*).		*in*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—THAMES—Ock & c. 319 sq. mi.								
D **Reading (Englefield)**	J. H. Benyon, Esq.	5	1 0	175	27·4	22·94	163	123
D Pangbourne (Woodberry)	W. H. Keep, Esq.	5	1 0	220	..	23·49	173	124
d Pangbourne (Recreation Gd.)	W. H. Keep, Esq.	5	1 0	134	..	22·03	..	104
D **Upton (Manor House)**	Miss C. S. Fry	5	1 0	240	..	20·54	164	100
D **Wantage (Lockinge Rectory)**	Rev. G. C. Keble	5	1 1	360	27·8	24·31	158	118
d **Kingstone Lisle Gardens**	Mr. F. Brown	5	0 9	700	27·1	23·26	..	..
D **Uffington (Woolstone Lodge)**	Miss A. E. Butler	5	1 0	350	27·6	22·96	147	117
Steventon (Milton Hill)	R. H. Betteridge, Esq.	5	1 6	300	25·4	20·94	..	..
D Wallingford (Winterbrook)	Frank K. Weedon, Esq.	5	1 0	150	24·9	21·07	150	105
D **Wallingford Castle**	Miss E. Hedges	5	1 3	175	23·8	20·40	179	108
D **Wallingford (Style Acre)**	A. L. Morphew, Esq.	5	1 4	220	25·2	20·97	158	107
D **Didcot (Sewage Works)**	Wallingford R.D.C.	5	1 1	170	..	18·84	141	99
D Faringdon (Shellingford Ho.)	Mrs. K. Marshall	5	..	275	..	19·95	142	114
D **Abbots Wittenham Rectory**	Rev. W. F. B. Ward	5	1 0	190	..	19·19	163	107
Long Wittenham (The Manor Ho.)	R. P. Sing, Esq.	12	1 0	170	25·3	20·68	..	..
D **Long Wittenham (Willington)**	H. J. Hewett, Esq.	5	1 0	167	25·2	20·40	161	110
D **Abingdon (Sewage Works)**	The Borough Surveyor	8	1 0	169	22·8	18·64	175	105
D **Abingdon (The Firs)**	Miss G. G. Challenor	5	1 3	200	23·7	19·26	178	111
D **Abingdon (Donnington)**	R. W. Langford, Esq.	5	1 0	199	24·7	19·89	167	106
D **Boars Hill (Sherwood)**	Rev.G.M.Nuttall-Smith,M.A.	5	1 0	444	25·6	21·09	162	114
D **Oxford (Kennington Nursery)**	W. G. Gray, Esq.	5	0 10	300	24·7	20·84	156	111

DIVISION III—SOUTH MIDLAND COUNTIES.

MIDDLESEX. (Area, 232 sq. mi.)

1.—THAMES—Colne & Brent. 185 sq.mi.								
D Weybridge (Shepperton Lock)	Thames Conservancy	5	1 0	41	23·1	22·35	155	109
D Littleton (Queen Mary Res.)	Met. Water Board	5	1 0	44	23·0	22·14	157	113
D Hampton Waterworks	Met. Water Board	5	1 0	27	22·7	19·16	146	109
D Kempton Works	Met. Water Board	5	1 0	40	22·6	19·66	132	102
D Hampton (Gloucester Rd.)	N. B. Palmer, Esq.	5	1 0	50	..	21·80	139	112
d Staines (Pumping Stn.)	Met. Water Board	5	1 0	55	..	21·64	(154)	(112)
D Staines Reservoir (West Side)	Met. Water Board	5	1 6	53	23·8	22·27	141	101
D Staines Reservoir (East Side)	Met. Water Board	5	1 6	53	23·9	22·06	141	104
D Twickenham (Sewage Works)(+A)	The Borough Surveyor	5	1 0	37	..	20·14	138	101
D Sipson	Middlesex County Council	5	1 2	95	..	21·45	147	109
D Sipson (Hollycroft)	Mr. W. J. Mitchell	5	1 0	94	22·5	21·64	152	114
D Kew Bridge (Waterworks)	Met. Water Board	5	1 3	36	24·1	19·69	152	110
d Chiswick (Turnham Green)	The Borough Engineer	8	1 0	27	23·3	20·20	..	..
D Hanwell (+A)	Middlesex County Council	5	1 9	36	24·5	19·24	152	106
D Ealing (Carlton Road) †	H. W. Peal, Esq.	5	1 0	120	..	19·15	160	97
D Hayes Sewage Works (+A)	Middlesex County Council	5	2 3	98	..	19·93	159	105
d Acton (Lowfield Road)	E. J. Jones, Esq.	5	4 6	92	..	19·77	..	105
D Ealing (Hanger Hill Reservoir)	Met. Water Board	5	1 0	206	24·7	20·99	151	106
D Greenford (+A)	Middlesex County Council	5	1 3	61	..	20·16	164	108
D Perivale (Northern Sewage Farm)	Ealing Boro' Council	8	1 0	56	24·0	20·39	159	113
D Alperton (Sewage Works)	C. S. Trapp, Esq., B.Sc.	8	1 2	80	..	23·74	175	120
D Willesden Reservoir	Met. Water Board	5	1 0	167	25·6	20·20	134	112
D Willesden (Stonebridge Fm.) (R)	F. Wilkinson, Esq., C.E.	10	5 9	100	..	20·44	147	109
D Ickenham Sewage Works (+A)	Middlesex County Council	5	1 8	109	23·6	21·04	154	122
D Sudbury (Station Approach)	L. H. Powers, Esq.	8	1 0	153	24·3	21·08	169	107
D Sudbury (36, Station Approach)	R. M. Eadie, Esq.	5	0 11	152	..	21·78	152	111
d Wembley (Keswick Gardens)	A. R. Bill, Esq.	5	1 0	150	..	20·15	..	103
D Golders Green (Dunstan Road)	The late Capt. A. E. Mackenzie	5	1 0	240	25·3	21·89	151	110
D Highgate (North Hill Depot)	W. H. Adams, Esq., C.E.	5	1 0	303	25·4	23·09	168	113
D Harrow (Oakhurst)	Hugh Gardner, Esq.	5	1 0	295	24·2	21·65	180	111
d Harrow (Bessborough Rd. Depot)	J. P. Bennetts, Esq., C.E.	5	1 0	215	25·8	22·13	..	116

† Gauge formerly at St. Stephen's Road.

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
MIDDLESEX—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—THAMES—Colne & Brent—(*con.*)								
D Hendon (Sewage Works)	A. O. Knight, Esq., C.E.	6	1 6	153	..	20·60	157	113
Kenton (Kingshill Drive)	T. Bedford Franklin, Esq.	5	1 0	250	..	24·22	..	..
d Hendon (Central School)	J. Burgess, Esq.	5	0 9	200	..	22·82	(156)	(117)
d Finchley (Church End)	Sr. Marie Jacques	5	0 8	300	..	23·39	..	..
D Wealdstone (Sewage Works) (+A)	The Surveyor	5	1 0	154	24·9	20·02	163	111
D Wealdstone (Kodak Works)	Messrs. Kodak, Ltd.	5	1 0	199	..	20·81	166	108
d Harrow (Wealdstone House)	Miss H. O. E. Cobb	5	1 0	236	25·1	20·65	(161)	(108)
D Northwood (Tandridge)	Chas. Price, Esq.	5	1 0	..	25·5	20·72	135	106
D Edgware M.C.C. Depot (+A)	Middlesex County Council	5	0 9	179	25·8	22·95	143	108
D Mill Hill (Ridgeway House)	Major N. G. Brett-James	5	1 0	375	..	22·14	128	103
D Bushey Heath (Highfield)	W.B.Worthington,Esq.,C.E.	5	1 0	503	..	22·30	168	109
d Elstree (Barnet Lane)	G. V. Maxted, Esq., C.E.	8	1 0	490	..	23·30	(149)	(108)
D Potters Bar (Mount Grace)	J. Forbes, Esq.	5	1 3	375	26·1	22·09	157	118
2.—THAMES—Lea. 47 sq. mi.								
D STROUD GREEN (Mount View Rd.)	L. R. Bennett, Esq.	5	1 0	212	..	20·12	158	103
d Stroud Green (Oakfield Road)	E. A. Madge, Esq.	5	1 0	206	..	19·82	..	..
D Crouch End (Barrington Rd.) (+A)	W. H. Adams, Esq., C.E.	8	1 0	118	25·8	23·67	161	110
D TOTTENHAM (Drayton Road)	Medical Officer of Health	5	1 3	51	23·3	19·64	133	105
D Hornsey (High Street)	Met. Water Board	5	1 0	107	24·9	20·29	137	96
D Muswell Hill (Wightman Rd.)	W. H. Adams, Esq., C.E.	8	1 0	90	..	21·53	147	107
D Muswell Hill (Sewage Farm) (+A)	W. H. Adams, Esq., C.E.	8	1 0	209	26·1	24·04	172	112
D Wood Green (Maryland Road)	F. C. Hornsey, Esq.	5	1 0	110	..	20·42	147	102
D Finchley (Victoria Park)	P. T. Harrison, Esq., C.E.	5	1 0	272	26·3	22·67	170	106
D Palmers Gr. (Broomfield Pk.) (+A)	R. Phillips, Esq., C.E.	8	1 6	136	24·7	21·62	139	107
D Winchmore Hill (Elsiedene Road)	V. E. Steers, Esq.	5	1 0	150	26·7	23·59	160	110
D Ponders End Pumping Station	Met. Water Board	5	1 0	45	23·3	19·25	135	107
D Enfield Chase (South Lodge)	Lee Conservancy Catchm. Bd.	5	1 0	200	..	22·81	157	105
D Enfield (Southbury Road)	Met. Water Board	5	1 0	105	24·7	20·81	148	110
D Enfield (Forty Hill)	Dr. E. C. Carter	5	0 11	125	..	19·50	136	103
D Enfield (Roselands, Turkey St.)	E. S. Rashleigh, Esq.	5	1 0	80	23·2	19·78	150	104
D Waltham Cross (Sewage Works)	J. E. Sharpe, Esq.	5	1 0	61	22·6	20·15	126	103
HERTFORDSHIRE. (Area, 635 sq. mi.)								
1.—THAMES—Thame. 10 sq. mi.								
D Tring (Akeman St.)	T. Grace, Esq.	8	1 0	450	29·4	22·98	176	121
D Tring (Pendley Manor)	Mrs. J. G. Williams	5	1 0	420	28·4	24·11	166	124
2.—THAMES—Colne and Brent. 199 sq. mi.								
D Northwood (St. Mary's Ave.)	R. H. Daw, Esq.	5	1 0	231	..	21·63	160	108
D Northwood (Woodhouse Eaves)	Miss S. F. Fox, M.D.	5	1 0	400	27·6	23·64	197	123
D Bushey Heath (California La.)	C. C. Cooper, Esq.	5	1 0	500	26·0	22·99	160	117
w Totteridge (West Lodge)	P. D. Walker, Esq.	5	1 4	410	26·9	22·78	..	..
d Batchworth (Pumping Stn.)	J. Grimmett, Esq.	5	1 2	156	..	22·69	..	..
d Rickmansworth (Croxley Green)	S. Ingleby Oddie, Esq.	5	1 0	262	27·2	22·86	..	122
D RICKMANSWORTH (Valley Road)	E. L. Hawke, Esq., M.A.	5	1 0	192	..	27·00	208	138
D Barnet (Bedford Avenue)	Miss M. Haines	5	1 4	350	27·9	24·37	161	121
d Barnet (Jesus Hospital)	P. J. Neville, Esq.	5	1 0	335	..	21·44	(146)	(105)
D Barnet (Sewage Works) (+A)	E. Scott, Esq., C.E.	5	1 0	295	..	22·01	174	106
D Watford (Colne Valley W.W.)	C. P. Sinclair, Esq.	5	3 0	200	25·6	21·24	160	107
d Watford (Waterworks)	W. W. Newman, Esq., C.E.	6	1 9	175	25·9	19·78	..	100
D Watford (Cassiobury Pk. Av.)	E. A. Robins, Esq.	5	1 0	240	26·2	21·99	149	109
D Watford (Stratford Road)	Miss L. M. Slinn	5	1 0	340	26·0	21·54	176	112
D Heronsgate (Waterfield Ho.)	A. J. Richardson, Esq.	5	1 0	390	..	26·93	205	118
d Sarratt (Micklefield Green)	J. O. Hickman, Esq.	5	1 0	380	29·0	25·68	..	122
D Shenley Grange	J. Charrington, Esq.	5	0 9	430	27·9	22·58	164	116
D Shenley (Kitwells)	T. H. Riches, Esq.	5	1 0	420	27·5	23·73	166	124

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
HERTFORDSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—THAMES—Colne and Brent.—(*con.*)								
D Sarratt (Goldingtons)	P. Clutterbuck, Esq	5	1 0	384	29·0	25·56	155	126
D Kings Langley (Langleybury Gdns.)	E. Henry Loyd Esq.*		..	300	..	23·76	167	121
D Chipperfield (Little Callipers)	Miss M. M. Rivington,	5	1 0	407	27·6	25·24	149	128
D Kings Langley (Fir Tree Cottage)	Edward Toms, Esq.	5	1 0	278	28·1	25·07	168	125
D Kings Langley (Langley Rise)	F. W. Rowson, Esq.	5	0 9	360	27·4	24·22	158	118
D Park Street (Bricketwood)	F. J. McLees, Esq.	5	1 0	300	25·5	20·48	156	103
D Hemel Hempstead (Apsley Mills)	Messrs. J. Dickinson & Co.	24	1 4	268	27·9	25·45	161	123
D Colney Heath (Tyttenhanger P.S.)	J. F. Haseldine, Esq.	5	0 9	241	25·7	20·82	159	111
Berkhampsted (Haresfoot)	T. G. Blackwell, Esq.*		..	500	..	25·65	..	..
D Hemel Hempstead (Northridge)	R. C. Micklem, Esq.	5	1 0	460	31·6	27·84	186	141
d St. Albans (Co. Mental Hosp.)	G. Goodchild, Esq.	5	1 0	295	25·1	22·25	..	105
D St. Albans (County Museum)	Mrs. Bullen	5	1 0	389	27·4	20·95	158	119
D St. Albans (Oaklands Inst.)	The Principal	5	1 0	272	24·9	21·39	151	106
D St. Albans (Gorhambury)	The Head Gardener	5	1 0	423	27·9	26·56	180	126
D Hatfield (Hatfield P. Stn.)	J. F. Haseldine, Esq.	5	1 0	334	24·7	20·51	151	109
D Berkhamsted (Rossway)	The Lady Hadden	5	1 1	590	..	27·25	176	127
D Berkhamsted (Anglefield)	E. T. Browne, Esq.	5	1 0	450	29·8	25·69	168	129
d Berkhampsted (Amersfort)	Mrs. Walter Cohen	5	1 0	510	..	25·87	..	..
D Tring (Cowroast Lock)	*new g.* Grand Union Canal Co.	5	1 0	390	29·7	24·24	151	123
D Harpenden (Rothamsted) (+A)	Lawes Agricultural Trust	8	0 9	420	26·7	23·01	172	118
D Harpenden (Rothamsted)	Lawes Agricultural Trust.	5	1 0	420	27·3	23·17	152	115
D Harpenden (Rothamsted)	Lawes Agricultural Trust.	72×87	0 9	420	28·6	25·13	161	115
d Little Gaddesden (Ringshall End)	H. C. Bradby, Esq.	5	1 0	700	28·9	23·55	..	..
d Markyate Waterworks	T. H. Lightbody, Esq.	5	1 0	538	..	(24·52)	(163)	(126)
3.—THAMES—Lea. 340 sq. mi.								
d Cheshunt (Manor House)	J. E. Sharpe, Esq.	5	1 0	83	24·2	18·85	..	93
D Northaw School	C. Steventon, Esq.	5	5 0	350	26·8	19·12	142	101
D Cheshunt Yard	Met. Water Board	5	1 0	100	24·1	19·71	147	106
D Cheshunt (Cheshunt Park)	J. A. Wanklyn, Esq.	5	0 9	209	23·2	20·42	155	106
D Cheshunt (Darnicle Hill P. Stn.)	Met. Water Board	5	1 0	250	26·2	22·11	163	118
D Hertford (Epping House)	Lady Brodie Henderson	5	0 9	400	25·1	21·76	176	112
d Essendon Place Gardens	J. B. Healing, Esq.	5	1 0	365	26·6	20·91	..	100
Little Berkhampstead	A. Noble, Esq.	5	1 0	380	25·0	20·02	..	..
d Hatfield (Co. Surveyor's Office)	Lt.Col. A. E. Prescott, C.E.	5	1 0	270	24·5	23·04	..	98
D Hoddesdon	H. F. Hayllar, Esq.	5	5 0	120	23·7	20·20	143	106
D Hoddesdon (Feilde's Weir)	Met. Water Board	5	3 8	95	23·7	20·00	159	111
D Haileybury College	The Headmaster	8	1 0	270	24·8	20·72	162	114
D Hertford (Bayfordbury)	H. W. Clinton Baker, Esq.	8	1 2	250	24·6	20·43	146	113
D Hertford (Cole Green)	Lee Conservancy Catchm. Bd.	5	1 0	240	..	20·75	147	109
D Stanstead Abbots (Warrax)	E. H. Barlow, Esq.	5	1 2	110	24·4	18·21	126	97
d Gilston Park	The Head Gardener	8	1 0	175	25·7	19·99	..	108
D Welwyn Garden City (Sewage Wks.)	H. A. Cook, Esq., C.E.	5	1 0	246	24·7	21·40	166	116
D Hertford (Sewage Works)	Met. Water Board	5	1 0	123	23·3	18·38	163	105
D Ware (Red House)	Met. Water Board	5	1 0	105	23·5	18·34	150	104
D Ware Grammar School	The Headmistress	5	1 0	118	23·0	18·50	126	101
D Ware (Chadwell Spring)	Met. Water Board	5	1 0	140	24·2	18·16	145	105
D Welwyn Garden City (Valley Rd.)	Comdr. W. George Lingham.	5	1 0	300	24·8	21·97	185	120
D Wareside (Morely House)	Lee Conservancy Catchm. Bd.	5	1 0	220	..	18·72	169	101
D Welwyn (Harmer Green)	Mrs. E. Weber.	5	1 0	403	25·5	22·16	165	118
Welwyn (The Manor House)	Lt.-Col. J. B. Gilliat*	5	0 9	220	..	22·02	..	..
D Kimpton (Stoneheaps)	S. Bendixson Esq.	5	1 0	400	..	19·29	155	112
d Welwyn (Codicote Lodge)	Mr. G. J. Miller.	5	1 0	340	25·8	21·55	..	97
D Much Hadham	Miss J. Mott.	5	1 0	212	25·1	21·85	155	115
D Much Hadham (Lordship)	Capt. W. Glynes Bruty.	5	1 0	205	24·5	20·24	142	112
D Bishop Stortford (Twyford Ho.)	Laurie Frere, Esq.	5	1 0	181	23·7	20·67	167	108
Breachwood Green	S. J. Simpson, Esq.	5	2 0	484	..	21·74	..	..
D Standon	F. H. Wace, Esq.	5	2 0	375	..	18·55	142	106

* *Per* Hertfordshire Natural History Society.

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

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HERTFORDSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—THAMES—Lea—(*con.*)								
D Little Hadham (Hadham Hall)	W. Minet, Esq.	5	0 10	338	24·5	21·33	144	115
Hitchin (King's Walden Bury)	Major J. F. Harrison	8	1 2	400	..	24·35	170	121
D Hitchin (Preston)	R. de. V. Pryor, Esq.	8	1 0	484	25·2	20·17	156	111
D Furneaux Pelham (The Brewery)	G. Warren Bindloss, Esq.	5	1 0	300	24·8	19·71	164	109
D Buntingford (Wyddial)	Lee Conservancy Catchm. Bd.	5	1 0	410	..	20·58	169	106
D Royston (Therfield Rectory)	Rev. H. R. Humphreys	5	1 0	512	25·2	20·92	157	114
4.—OUSE. 86 sq. mi.								
d Offley (School House)	The Headmaster	5	1 0	526	25·4	19·52	..	..
D Hitchin (Newlands)	F. Ransom, Esq.	5	1 0	271	24·8	20·13	162	109
d Hitchin (High Down)	Miss E. Pollard	5	1 1	421	24·6	20·70	..	103
D Letchworth (Gernon Road)	A. W. Brunt, Esq.	5	1 0	280	22·8	18·00	145	106
D Letchworth (Sollershott West)	Edward Grubb, Esq.	8	0 11	310	23·1	18·52	153	103
d Letchworth (Fire Station)	The Surveyor, U.D.C.	5	1 0	290	22·3	17·03	..	..
D Barley (Dalnyveed)	W. F. Sermons, Esq.	5	1 0	300	24·0	19·53	152	106
D Royston (Earls Hill House)	Col. E. C. M. Phillips, D.S.O.	8	1 3	225	23·6	19·47	177	110
BUCKINGHAMSHIRE. (Area, 743 sq. mi.)								
1.—THAMES—Cherwell. 30 sq. mi.								
2.—THAMES—Thame. 158 sq. mi.								
D Parslow's Hillocks	Col. C. S. Prichard	5	1 0	770	31·1	25·63	184	110
D Princes Risborough (Research Lab.)	The Director	5	1 0	333	..	23·88	173	120
D Little Kimble	Dr. L. T. Burra	5	0 10	370	25·0	21·55	166	107
d Weston Turville	G. Eland, Esq.	5	1 0	320	25·5	22·13	..	114
D Tring (Bulbourne)	Grand Union Canal Co.	5	1 0	401	26·2	19·80	160	115
D Aylesbury (Sewage Works)	W. H. Taylor, Esq.	5	1 0	251	25·9	22·00	200	113
d Quainton (Quainton Cottage)	Sir L. H. West, O.B.E.	5	1 0	350	..	21·08	..	..
3.—THAMES—Wye & c. 129 sq. mi.								
D Eton (Tangier Island) (+A)	F. N. McRae, Esq.	5	0 8	68	24·6	22·17	165	118
D Slough (Upton)	R. Bentley, Esq.	5	1 0	78	23·9	21·63	161	107
Slough (Windsor Road)	F. K. Hare, Esq.	5	0 11	69	..	21·63	..	..
D Taplow (Beechwood)	Messrs. Wm. Wood & Son, Ld.	5	0 10	..	..	19·53	143	108
D Taplow Court Gardens (*new g*)	G. H. Emmett, Esq.	5	1 0	211	23·9	21·55	161	113
D Taplow (Hitcham Grange)	Hon. C. S. Irby	5	1 0	180	23·3	19·00	145	105
d Henley-on-Thames (Greenlands)	Lord Hambleden	5	1 0	116	27·1	21·34	..	102
D Burnham Vicarage	Rev. P. Nott	5	1 9	100	..	20·49	171	117
Stoke Poges (Tithe Farm)	G. J. Mortlock, Esq.	5	1 0	164	..	21·45	..	..
D Marlow (Harleyford Gdns.)	Sir Harold Clayton, Bart.	5	2 0	97	..	25·48	174	114
D Bourne End	Major Forbes Holland	5	2 0	91	..	24·37	167	121
d Bourne End (Hedsor)	J. Wood, Esq.	8	1 0	170	..	23·35	..	111
D High Wycombe (Flackwell Hth.)	E. Dickson Park, Esq.	5	1 10	365	26·8	22·75	158	114
D Penn (Woodside)	Miss E. M. T. Epps	5	1 0	500	30·7	27·49	175	127
D Penn (Rayners)	Mr. E. Peett	5	1 10	547	29·4	26·41	158	126
D Hampden House	The Earl of Buckinghamshire	5	1 0	695	29·2	23·39	170	128
4.—THAMES—Colne. 133 sq. mi.								
d Wraysbury School	R. Watson, Esq.	5	0 8	59	..	23·19	..	..
D Slough (Ditton Park)	G. B. Harrison, Esq.	5	3 0	70	24·7	23·27	137	104
D Slough (Langley)	R. H. Major, Esq.	8	0 10	85	23·9	21·17	155	112
D Denham Golf Club	The Secretary	5	0 11	210	26·4	21·53	148	113
D Gerrards Cross (Bulstrode Gdns.)	Mr. G. Taylor	5	1 6	280	27·2	23·60	145	118
D Chalfont St. Giles (Up Corner Cot.)	Capt. R. E. Field	8	0 8	300	29·6	25·67	159	123
D Beaconsfield	S. H. Dyer, Esq.	5	1 0	250	27·7	23·26	164	115
d High Wycombe (Hazlemere Sch.)	A. J. Chapman, Esq.	5	1 6	568	28·1	26·59	..	..
D Chalfont St. Giles (Roughw'd P'k.)	Thurston Agelasto, Esq.	5	1 0	400	28·8	24·48	149	120
D Amersham Waterworks	F. L. Gordon, Esq.	8	1 0	292	..	26·24	160	122
D Amersham Common (The Plantation)	Mrs. G. H. Fawcett.	8	1 0	464	28·2	26·83	165	124
D Amersham Common (Stanmore)	W. Garton, Esq.	5	1 0	517	30·6	27·61	172	127
D Gt. Missenden (Pumping Sta.)	J. Grimmett, Esq.	5	1 0	372	27·6	24·92	163	123
d Chesham (Nashleigh Hill)	Mrs. Hayes	5	1 0	530	29·1	23·57	..	..
d Mayortorne Manor	Miss N. E. Laycock	5	1 0	500	28·7	23·91	..	..

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
BUCKINGHAMSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—OUSE. 293 sq. mi.								
D Oving House	Mrs. H. Yates Thompson	5	1 0	515	26·4	21·90	169	130
D Wing (Burcott)	R. H. Ayres, Esq	5	1 6	407	27·4	22·04	161	126
D Swanbourne House School	L. L. C. Evans, Esq	5	1 0	411	26·3	24·14	149	123
D Mursley Hall	Lady Beecham	8	1 0	490	25·7	22·25	152	118
D Buckingham (Market Hill)	A. Pettipher, Esq	5	1 0	300	25·3	21·34	172	116
D Stony Stratford (Calverton Lo.)	Lt.-Col. L. C. Hawkins	5	1 0	230	24·1	22·06	171	120
D Wolverton (Gables Lodge)	J. Forster, Esq	5	1 0	264	24·0	21·23	168	118
d Wolverton (Council School)	The Headmaster	5	5 0	263	22·9	19·74	..	..
D Newport Pagnell (Lovat Bank)	F. W. Taylor, Esq.	5	1 6	250	..	20·21	156	121
D Newport Pagnell (Lathbury)	F. W. Coates, Esq	8	1 2	228	23·2	19·69	159	120
D Olney (Gresham Ho.)	H. J. Wells, Esq.	8	1 0	150	..	21·49	147	110
d Turvey (Brayfield House)	Major D. Farrer, J.P.	5	4 0	188	23·3	22·26	..	117
OXFORDSHIRE. (Area, 756 sq. mi.)								
1.—SEVERN—Upper Avon. 10 sq. mi.								
D Sibford Ferris (Woolman Cottage)	Joshua Lamb, Esq	5	1 0	570	*27·6*	22·95	156	112
2.—THAMES—Windrush & c. 261 sq. mi.								
D Kelmscott	R. Hobbs, Esq	6	0 10	150	..	20·77	146	110
D Bampton (C.E. School)	E. W. Fry, Esq	5	0 10	233	..	24·32	147	110
Broughton Poggs	Mrs. Hardcastle	5	1 0	275	..	23·34	..	..
D Filkins	Hon. Sir Stafford Cripps, K.C.	5	2 7	279	..	21·84	169	109
d Witney (Cokethorpe)	Major H. G. Feilden	5	1 4	230	..	24·30	..	127
D Burford (Westhall Hill)	Capt. W. R. W. Kettlewell, R.N.	5	1 0	400	..	23·56	159	108
D Charlbury (Cornbury Park)	The Head Gardener	5	1 0	420	..	27·44	138	112
D Wootton Rectory	Rev. F. R. Marriott	5	1 0	375	..	23·21	154	111
D Bruern Abbey (The Gardens)	F. S. Smith, Esq	5	1 0	340	..	25·69	160	123
D Chadlington (The Manor)	P. Handy, Esq.	5	1 0	400	..	21·55	160	114
D Chadlington (Langston House)	Lt.-Col. F. W. Schofield, CMG.	5	1 0	430	..	24·04	171	123
D Chipping Norton (Heythrop Col.)	The Procurator	8	1 0	600	..	26·35	176	131
D Chipping Norton (Bungalow)	T. H. Pettipher, Esq	5	1 0	750	..	24·17	190	114
D Chipping Norton (New Street)	G. Sandles, Esq.	5	1 0	600	..	23·39	155	111
D Chipping Norton (Choicehill)	E. W. Arkell, Esq	5	1 0	500	..	23·23	161	109
3.—THAMES—Cherwell. 250 sq. mi.								
D Nuneham Park Gardens	The Head Gardener	8	1 0	280	..	22·70	152	112
D Oxford (Hincksey Pumping Sta.)	City Engineer	8	1 0	187	..	21·09	175	105
D Oxford (Osney Lock)	Thames Conservancy	5	1 6	188	..	21·02	173	102
D Oxford (Magdalen College)	F. J. Parker, Esq	5	1 0	186	23·8	20·62	171	108
D Oxford (Radcliffe Obs.) (+A)	The Radcliffe Observer	8	1 8	208	24·8	21·92	171	111
D Headington (Warneford Asy.)	Dr. A. W. Neill	5	1 0	300	..	19·87	143	113
D Headington (Forest Lodge)	Major A. V. Spencer, D.S.O.	5	0 11	333	..	20·98	162	111
D Oxford (Northmoor Road)	Rev. Canon J. S. Wimbush	8	1 0	210	..	20·29	157	106
D Headington Hill (Thornhill)	E. S. Fry, Esq.	5	1 0	..	..	20·99	170	112
D Elsfield (Home Farm)	Miss M. J. Parsons	5	1 0	355	..	19·98	152	109
D Tackley (Hill Court)	W. Evetts, Esq., Junr.	5	1 0	340	*27·9*	21·69	160	114
D Middleton Park (*new g*)	The Earl of Jersey	5	1 6	326	25·8	23·56	150	116
D Upper Heyford (Aerodrome) (+A)	Meteorological Officer	8	1 0	408	..	22·80	171	112
D Steeple Aston (The Grange)	Arthur E. Bradshaw, Esq.	8	1 0	400	*27·2*	22·77	164	103
D West Adderbury (Court End)	Lt.-Col. H. E. du C. Norris	5	0 10	330	..	22·00	154	113
D West Adderbury (Cross Hill)	Lt.-Col. H. E. du C. Norris	5	1 0	338	..	21·53	167	112
D West Adderbury (St. Amand's)	Miss M. M. Bradford	8	1 6	320	..	22·42	163	126
D Adderbury (The Rookery)	C. C. Bradford, Esq.	8	1 0	323	..	22·57	170	123
d Banbury (Cotefield)	Capt. C. N. Keyser	5	1 0	300	..	22·77	..	122
D Broughton Rectory	Rev. B. W. Bradford	5	1 6	370	..	21·99	170	115
D N. Newington (Orchard Ho.)	H. J. Busby, Esq.	5	1 3	425	..	20·50	154	111
*Grimsbury (Banbury W.W.)	Banbury Water Co.	5	1 3	316	..	19·25	168	113
D Wroxton	Hon. Mrs. Fitz Gerald	8	1 3	500	..	21·54	177	123

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DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

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OXFORDSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—THAMES—Thame & c. 210 sq. mi.								
D Shiplake	The late Lt.-Col. C. A. Yool, D.S.O.	5	1 0	156	..	23·69	171	122
d Goring Heath	Rev. Canon F. T. Wintle	5	1 0	400	..	24·16	..	..
D Shiplake (Crescent Key)	A. E. Hobbs, Esq.	5	1 1	127	..	22·02	150	113
D Goring	G. C. Turner, Esq.	5	1 0	159	..	23·49	173	114
D Harpsden (Cray) (+A)	B. E. Dunbar Kilburn, Esq.	5	1 0	230	..	22·94	156	114
D Henley-on-Thames (Hart St.)	A. Edward Hobbs, Esq.	5	1 6	110	..	22·61	149	111
D Henley-on-Thames (Greys Lane)	G. F. Smith, Esq	5	0 9	123	..	22·80	132	105
D Henley-on-Thames (Greys Gr.)	Mrs. H. Wolferstan	5	1 6	350	..	25·04	173	114
D Ipsden (Hailey)	Glynne Williams, Esq	5	1 0	350	..	22·83	188	116
D Nettlebed (Joyce Grove) No. 1	Mr. F. Morby	5	1 0	590	..	28·91	163	127
D Swyncombe House	C. W. Christie-Miller, Esq.	5	1 0	515	..	25·13	146	128
D Swyncombe (Cookley House)	J. S. C. Bridge, Esq.	5	1 0	730	..	26·27	174	131
D Culham	F. Mitchell, Esq.	5	0 10	180	..	17·07	155	102
Culham (Zouch Farm)	P. E. Saunder, Esq.	5	3 0	186	..	17·05	..	..
D Clifton Hampden (Manor House)	Lord Aldenham	5	1 0	190	*24·9*	20·19	158	110
D Watlington (Pyrton Manor)	Major H. Ducat Hamersley.	5	1 0	325	*26·7*	22·50	172	119
D Wheatfield	A. J. Spencer, Esq.	5	0 11	275	..	22·27	146	117
Toot Baldon (Potlands)	D. Clinkard, Esq.	5	1 0	288	..	21·25	152	..
D Towersey Vicarage	Rev. H. E. Cooper	5	1 0	250	27·5	22·48	164	120
5.—OUSE. 25 sq. mi.								
NORTHAMPTONSHIRE. (Area, 1003 sq. mi.)								
1.—SEVERN—Upper Avon. 60 sq. mi.								
D Rugby (Kilsby Vicarage)	Rev. C. Ryder Macnally*	5	0 10	450	*26·5*	24·07	156	123
D Winwick Warren	Capt. P. L. Ransom	8	1 5	648	*27·2*	24·68	211	140
D Naseby Reservoir	Grand Union Canal Co.	5	1 6	519	*25·7*	20·32	176	115
2.—THAMES—Cherwell. 77 sq. mi.								
D Croughton	C. A. St. George Moore, Esq.	5	1 0	430	*25·6*	22·62	157	111
d*King's Sutton (Manor House)	G. Morgan, Esq.	5	1 0	338	*25·8*	21·80	..	..
3.—OUSE. 148 sq. mi.								
D*Brackley (Waterworks)	W. M. Oldreive, Esq.	5	1 2	471	*26·1*	23·37	153	116
D Hazelborough Woods	Forestry Commission	8	1 0	241	*25·5*	22·70	143	117
D Silverstone (Council School)	J. P. Osborne, Esq.	5	1 0	400	*25·9*	24·91	142	118
D Wappenham (Lois Weedon Vic.)	Rev. E. V. Fenn	5	1 2	400	..	22·51	171	120
D Towcester (Bradden House)	Miss U. Grant-Ives	5	0 10	420	*26·9*	23·40	166	122
D Towcester (Easton Neston)	Sir T. Fermor-Hesketh, Bt.	8	1 0	325	*25·8*	24·12	181	124
d Roade (Council School)	The Headmaster	8	1 0	394	*25·2*	21·18	..	107
w Hargrave Hall	Sir K. Murchison	5	1 0	273	*23·7*	20·26	..	..
4.—NENE. 622 sq. mi.								
D Salcey Forest	Forestry Commission	8	1 3	370	*25·4*	21·73	159	114
D*Blisworth (Crieff House)	A. Westley, Esq.	5	1 0	351	*24·9*	20·36	180	113
D Blisworth (Grand Junc. Canal)	Grand Union Canal Co.	5	1 6	300	*23·8*	22·65	170	107
D*Little Houghton House	The late Christopher Smyth, Esq.	5	1 0	270	*23·9*	20·34	147	109
D Northampton (Upton)	J. R. Foster, Esq.	5	1 0	270	..	18·64	144	111
Northampton (St. Andrew's Hosp.)	D. F. Rambout, Esq., M.D.	5	0 9	250	..	19·13	162	109
d*Northampton (General Hosp.)	H. St. John Wood, Esq.	5	1 1	259	*23·6*	19·14	144	106
D Northampton (Mental Hosp.)	W. R. Budgen, Esq.*	8	1 2	398	*23·8*	20·18	186	114
D*Northampton (Stimpson Av.)	F. Tomlinson, Esq., C.E.§	8	1 0	329	..	19·13	148	107
D*Northampton (Mercers Row)	R. H. Primavesi, Esq.	5	12 0	240	..	21·18	185	120
d Flore	Major C. A. Markham*	5	1 0	344	*25·2*	(21·52)	(167)	(125)
D*Duston (Southfield Road)	W. P. Walker, Esq.	5	1 0	342	*24·9*	20·19	180	124
D Wollaston	G. Harris, Esq.	5	2 0	250	*22·4*	19·12	167	109
D Daventry (Tunnel End)	Grand Union Canal Co.	5	1 6	394	*25·8*	20·71	165	111

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§ "Ground" is the roof of a reservoir 18 ft. above the general level.

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NORTHAMPTONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—NENE—(*con.*)								
D*Althorp Park	Mr. G. Low	5	1 0	414	*25·6*	22·53	182	132
D Sywell Hall	Brig.-Gen. H. E. Stockdale..	5	1 0	371	*25·8*	21·61	169	111
D*Pitsford (Sedgebrook)	Major C. A. Markham	5	1 0	311	**24·5**	(20·62)	(148)	(109)
D Wellingborough (Nene Wharf)	R. Nene Catchment Bd.	5	1 0	135	..	17·75	143	108
D*Wellingborough (Swanspool)	R. S. Henshaw, Esq., C.E...	5	1 0	169	**24·3**	18·44	163	110
D Wellingborough (Sewage Works)	R. S. Henshaw, Esq., C.E...	5	1 0	139	*23·2*	16·59	149	101
D Wellingboro' (Bushfield W.W.)	R. S. Henshaw, Esq., C.E...	8	0 11	286	*23·3*	18·42	160	106
*Watford Court	Lord Henley	8	1 0	430	*26·0*	20·32	..	..
D Ravensthorpe	F. Tomlinson, Esq.	5	1 0	370	*25·5*	20·85	160	112
D West Haddon (Foxhill)	P. F. H.Wykeham, Esq. C.E.	8	1 6	440	..	21·20	127	110
D Hardwick Pumping Stn.	R. S. Henshaw, Esq., C.E..	5	0 9	318	..	18·18	155	103
D RAUNDS (Council School)	The Headmaster	5	1 0	213	23·5	18·94	150	106
D Kettering W.W. (Cransley)	Major J. P. Haugh	8	1 0	275	*24·5*	18·60	164	105
D*Kettering (Sewage Works)	Major J. P. Haugh	8	1 0	199	*23·9*	17·46	161	98
D Kettering W.W. (Thorpe Malsor)	Major J. P. Haugh	5	1 0	351	*24·9*	19·32	170	104
D Kettering W.W. (Clover Hill)	Major J. P. Haugh	5	1 0	344	*24·5*	16·49	141	95
D Thrapston (Drayton Ho.)	Mr. C. V. Craske	5	1 6	220	..	18·70	143	116
Rothwell (Loddington)	Mr. J. Oliff	5	1 0	400	*25·1*	18·62	131	107
D Tichmarsh Rectory	Rev. Canon A. M. Luckock*.	5	1 0	170	*23·7*	19·23	174	111
D Rothwell (Shotwell Mill W.W.)	The Surveyor, U.D.C.	5	1 6	340	*23·8*	18·65	167	100
d Desborough Council School	F. W. Grudgings, Esq.	5	1 0	400	*26·0*	19·85	..	..
D Desborough U.D.C. Waterworks	A. Harris, Esq., C.E.	5	0 9	457	*25·3*	19·84	141	104
d Barnwell (Lilford Hall)	Lord Lilford	8	1 0	..	*23·6*	18·99	..	..
d Oundle (Milton Road)	J. M. Siddons, Esq. C.E...	5	1 6	131	22·3	17·11	..	98
D*OUNDLE (School)	The Headmaster	8	1 0	147	*22·3*	16·33	162	94
d Oundle (Nene Wharf)	R. Nene Catchment Bd.	5	1 0	65	..	18·93	..	..
d Peterborough (Woodston)	Central Sugar Co., Ltd.	5	1 0	25	..	16·57	..	94
D Peterborough (Westbourne Ho.)	E. H. Colman, Esq.	5	1 0	35	*21·7*	16·78	157	98
D*Peterborough (Abbeyfields)	Major J. Shipley Ellis, J.P..	5	1 0	49	*22·4*	17·07	169	104
D*Peterborough (Milton Park)	Mr. E. A. Parker	5	2 0	86	..	18·24	158	106
D Wittering (Whitewater)	E. Betts, Esq.	8	1 0	241	*23·3*	18·85	148	109
D Wittering (Bone Mill)	E. Betts, Esq.	8	1 0	..	*23·2*	19·13	145	110
d*Eye (Newborough)	R. Williams, Esq.	5	1 0	8	*22·2*	(18·51)	..	..
5.—WELLAND. 96 sq. mi.								
D Market Harboro' (Dingley Hall)	Mr. V. Read*.	5	1 6	400	*26·0*	23·23	187	131
D Weston-by-Welland	Major N. H. Matthews	5	1 3	254	..	20·45	160	115
d*Rockingham Castle Gardens	The Head Gardner	5	1 0	450	*25·9*	22·55	..	..
D Gretton School	The Headmaster	5	0 10	390	..	17·67	150	111
d Easton-on-the-Hill	W. H. Tillson, Esq.	5	0 7	290	23·5	18·12	..	..
D Market Deeping (Etton)	W. H. A. Court, Esq., C.E...	8	1 0	25	*21·8*	16·51	152	102
HUNTINGDONSHIRE. (Area, 366 sq. mi.)								
1.—OUSE. 327 sq. mi.								
D St. Neots (The Square)	Miss L. Sibley	5	0 10	50	..	19·98	181	124
D Brampton School	W. T. Carter, Esq.	5	1 0	40	..	17·76	145	100
d Hemingford Grey	G. F. Wilson, Esq.	5	1 6	20	21·9	18·05	..	113
D St. Ives (Slepe House)	Dr. W. R. Grove	5	1 0	25	22·6	17·26	159	109
D Huntingdon (Hinchingbrooke)	W. Prowting, Esq.	5	2 0	70	..	18·59	170	108
D Catworth (School House)	J. H. Annet, Esq.	5	0 9	210	23·7	19·34	177	115
D Whittlesea Mere	L. I. Clark, Esq.	8	1 6	10	21·4	18·64	163	109
2.—NENE. 39 sq. mi.								
BEDFORDSHIRE. (Area, 467 sq. mi.)								
1.—THAMES—Colne. 20 sq. mi.								
D Whipsnade Park	The Zoological Society	5	1 6	712	..	23·16	174	124
D Luton (Stockwood)	Capt. H. C. Ross-Skinner...	5	1 0	539	..	23·22	150	125

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	BEDFORDSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—THAMES—Lea. 32 sq. mi.								
D	Luton (Pumping Station)	J. W. Tomlinson, Esq., C.E..	5	1 0	343	*25·9*	22·59	177	124
D	Dunstable (Cement Works)	Works Manager	8	1 0	430	..	20·54	158	118
D	LUTON (Wardown Park)	J. W. Tomlinson, Esq., C.E..	5	1 0	381	..	20·28	151	115
D	Luton (The Downs)	G. W. Pryer, Esq	5	1 0	479	..	20·39	162	123
D	Luton (Stopsley)	Lee Conservancy Catchm. Bd.	5	1 0	540	..	21·01	161	124
	3.—OUSE. 408 sq. mi.								
d	Shefford (Stondon Manor)	R. Long, Esq	5	1 0	241	..	18·58	..	105
D	Hockliffe (Lyndhurst)	C. J. Kilby, Esq	5	1 0	350	..	20·24	150	115
D	WOBURN (Experimental Farm)	Lawes Agricultural Trust...	8	1 0	291	23·9	19·56	163	112
D	Woburn (Fruit Farm, Ridgmont)	E. J. Hobbs, Esq	5	1 0	270	..	20·87	154	120
D	Letchworth (New Sewage Works)	The Surveyor, U.D.C.	5	1 0	195	..	17·71	138	97
D	Stotfold (Three Co. Mental Hos.)	Dr. L. O. Fuller	5	1 0	220	*23·2*	17·20	148	99
M	Meppershall	W. Ransom & Son, Ltd.	5	0 9	235	..	18·79	..	..
D	Aspley Guise	C. A. C. Bowlker, Esq., M.A.	5	1 0	360	..	23·05	158	130
D	Shefford (Clifton Bury)	W. Inskip, Esq	5	1 0	137	..	16·42	168	105
D	Shefford Council School	Mrs. R. Alldritt	5	1 0	126	..	18·82	158	107
	Shefford (Stanford)	H. Inskip, Esq	5	2 0	90	..	15·67	..	..
D	Biggleswade (New Spring P.S.)	T. A. Staniforth, Esq	5	1 6	180	..	15·01	136	94
D	Biggleswade (Ickwell Bury)	Rev. G. L. Deuchar	8	1 2	125	..	15·67	157	104
D	Potton (Sewage Wks.)	C. M. Robinson, Esq.	5	1 2	118	..	16·45	125	106
D	Sandy (Mogerhanger Park)	Dr. C. G. Welch	5	1 0	152	..	18·04	152	112
D	Bedford (Castle Road)	Miss M. E. Newbery	5	7 0	108	..	18·17	153	108
D	Bedford (Bedford Park)	The Borough Engineer	8	1 3	117	..	16·74	140	100
D	Great Barford House	J. Arnold Whitchurch, Esq..	5	1 0	120	..	18·51	166	114
	Sharnbrook (Glen Lui)	L. Stileman-Gibbard, Esq...	5	1 0	220	..	21·79	..	127
	4.—NENE. 7 sq. mi.								
	CAMBRIDGESHIRE. (Area, 859 sq. mi.)								
	1.—STOUR. 17 sq. mi.								
	2.—OUSE. 741 sq. mi.								
D	Ashwell (Odsey)	W. Herbert Fordham, Esq..	5	2 0	256	23·0	18·54	160	101
	Litlington Vicarage	Rev. M. de Courcy-Ireland..	8	1 0	98	..	19·58	141	..
D	Guilden Morden Vicarage	Rev. Ll. G. S. Price	5	1 0	140	21·9	16·66	153	108
	Abington Pigotts Hall	Rev. M. de Courcy-Ireland..	5	1 0	87	21·8	19·01	146	112
D	Melbourn (Melbourn Bury)	A. R. Fordham, Esq	5	1 0	90	..	18·72	170	109
D	Meldreth (Chiswick Farm)	A. A. Howard, Esq	5	1 1	70	22·4	18·95	170	111
d	Whittlesford (Scotts)	Robert Maynard, Esq	5	0 6	68	22·3	16·18	..	..
d	Wimpole Hall	W. J. Snell, Esq	5	1 0	141	23·0	16·61	..	108
D	Grantchester (Lyndewode)	J. Nutter, Esq	5	1 0	31	22·6	18·24	159	111
D	Fulbourn (Fleam Dyke)	Cambridge W.W. Co.	5	1 0	99	21·0	18·58	166	105
D	Fulbourn Pumping Station	Cambridge W.W. Co.	5	1 0	37	22·9	16·06	152	109
D	Fulbourn (Cambridge Mental Hos.)	The Farm Bailiff	5	1 6	72	..	18·56	138	101
D	Cambridge W.W. (Cherryhinton)	Cambridge W.W. Co.	5	1 0	35	21·6	15·12	140	98
D	Cambridge (Barrow Road)	N. T. Myers Esq.	8	0 10	45	23·8	18·01	178	112
D	Cambridge (Corporation Store Yd.)	G. W. Teasdale, Esq., C.E...	5	1 8	52	21·2	16·12	162	99
D	CAMBRIDGE (BOTANIC GARDENS)	The Curator	5	1 1	41	21·8	16·98	142	104
D	Cambridge (Corporation Ppg. St.)	G. W. Teasdale, Esq., C.E...	5	1 7	28	22·1	17·41	148	101
D	CAMBRIDGE (UNIVERSITY FARM)	The Director	5	1 0	78	..	18·46	158	112
D	Caxton	Dr. E. P. H. Dudley	5	1 0	60	23·3	17·00	149	120
D	Quy Hall	Lt.-Col. J. C. W. Francis ..	5	0 9	23	22·6	20·06	141	108
d	Boxworth (Manor House)	E. H. Thornhill, Esq	5	1 0	76	23·4	19·24	..	104
d	Oakington	A. H. V. Bloom, Esq	5	1 9	27	..	18·62	..	100
d	Burwell (Manor House)	J. G. Faircliffe, Esq	5	1 0	50	23·0	16·49	..	101
D	Cottenham (Bernard House)	Miss K. Bull	5	1 6	30	22·1	17·88	167	111
D	Conington (Conington Hall)	P. T. Gardner, Esq	5	1 0	50	24·7	18·44	138	109

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
CAMBRIDGESHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—OUSE—(*con.*)								
D Fordham (London House)	W. V. Bloom, Esq.	5	1 0	30	21·4	15·29	130	101
D Stretham Engine	E. Stevens, Esq.	5	4 9	13	21·2	15·19	133	92
Stretham (Orchard House)	Miss Wright	8	4 6	42	22·0	18·15	139	..
D Littleport (Highfield House)	H. G. Martin, Esq.	8	4 0	67	21·3	17·61	134	105
D Chatteris (Aylesby House)	P. A. S. Ruston, Esq.	5	1 6	31	22·5	18·25	134	106
d March	L. I. Clark, Esq	9	2 0	10	22·8	16·89	..	105
D Upwell (Marmont Priory Lock)	L. I. Clark, Esq	8	1 1	..	20·6	18·37	141	102
3.—NENE. 101 sq. mi.								
D Stanground Sluice	L. I. Clark, Esq	8	1 6	15	20·3	17·32	154	102
D Parson Drove (Clows Cross)	W. Kingston, Esq.	8	1 0	6	22·1	17·01	151	109
d WISBECH (Horticultural Station)	Director of Education	5	1 0	10	..	(17·98)	(149)	(111)
D Wisbech (Queen's Road)	C. Dann, Esq	5	1 6	10	26·3	16·71	150	105
D Wisbech (Tydd Manor)	A. H. Carter, Esq.	5	6 6	..	..	17·17	132	112

DIVISION IV—EASTERN COUNTIES.

ESSEX. (Area, 1,532 sq. mi.)

1.—THAMES.—Lea. 132 sq. mi.

D West Ham (Abbey Mills)	London County Council	8	0 10	15	22·3	18·11	133	104
D Leyton (Sewage Works) (+A)	A. P. Howell, Esq., C.E.	5	0 9	22	23·0	19·15	144	105
d Leytonstone (High Road)	Miss G. Lister	5	1 3	100	24·3	20·03	..	115
D Lea Bridge (Waterworks)	Met. Water Board	5	1 0	23	..	17·81	130	107
D Walthamstow (Ferry Lane)	Met. Water Board	5	1 0	30	22·6	18·13	137	96
D Woodford (Haggar Lane)	Met. Water Board	8	1 0	176	23·0	19·50	139	106
D Buckhurst Hill Reservoir	Met. Water Board	5	1 0	275	..	21·32	144	103
Buckhurst Hill (Queen's Rd.)	A. J. Mead, Esq.	5	4 2	250	..	20·09	..	..
D Chingford (Crescent Road)	Miss M. L. Mathieson	5	2 9	200	..	19·97	143	107
D Chingford Mill	Met. Water Board	5	1 0	40	..	18·48	135	104
D Loughton (High Beech Res.)	Met. Water Board	8	1 0	376	..	21·51	146	116
D Waltham Abbey (Rammey Marsh)	Met. Water Board	5	1 0	60	..	18·95	142	102
D Waltham Abbey (Pumping Sta.)	Met. Water Board	5	1 8	62	..	19·17	143	99
D Waltham Abbey (Upshire)	Lee Conservancy Catchm. Bd.	5	1 0	270	..	21·07	162	108
d Waltham Abbey (Gunpr. Fact.)	The Superintendent	5	1 0	64	..	19·04	..	..
D Hatfield Broad Oak (Barrington)	A. H. Gosling, Esq.	5	0 10	300	..	19·60	174	108
Bishop Stortford (Hassobury)	Major W. S. Gosling	5	0 10	290	..	19·55	164	..
D Elsenham (Gaunts End)	W. E. Greenfield, Esq.	5	1 0	363	24·6	20·86	144	108
D Stansted (Bentfield Place)	L. D. Gosling, Esq.	5	0 9	300	..	19·20	183	108
2.—THAMES—Roding, &c. 316 sq. mi.								
D Grays (Sewage Works)	The Manager	8	1 6	7	..	15·51	142	88
D Grays (Stanley Road)	Grays U.D.C.	5	3 3	21	..	16·64	119	94
D Rainham (Riverside Sew. Works)	Dagenham U.D.C.	8	1 3	5	19·3	16·39	139	93
D EAST HAM (Central Park)	The Corporation	8	1 0	15	22·3	18·44	138	103
D East Ham Well	Met. Water Board	5	1 0	17	21·6	17·84	125	96
D Dagenham Sanatorium	The Medical Superintendent	5	1 0	18	19·3	15·19	128	93
D Forest Gate (Monega Road)	C. E. Golding, Esq.	5	0 11	20	22·1	19·18	156	108
D Ilford Sewage Works	The Borough Engineer	5	1 0	31	..	16·70	136	97
D Leigh (Brick House)	Miss I. Bentall	5	0 10	136	..	16·43	130	108
D South Benfleet (Hillside Road)	H. A. Marshall, Esq.	5	1 0	55	..	16·81	140	104
D Vange Pumping Station	Southend Water Works Co.	5	1 0	43	..	18·08	134	104
d Manor Park (City of L'dn. Cemy.)	The Superintendent	5	0 6	50	22·8	18·03	..	..
d Pitsea Pumping Station	Southend Water Works Co.	5	1 0	28	..	18·60	..	..
D Horndon (Eastern Sew. Works)	Hornchurch U.D.C.	8	1 6	23	..	16·58	133	92

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1934. Rain-fall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
ESSEX—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—THAMES—Roding—(*con.*)								
D Hornchurch	Hornchurch U.D.C.	8	1 6	44	..	17·51	139	102
D Wanstead (Red Bridge)	Met. Water Board	5	1 0	25	..	18·19	131	100
D Havering-atte-Bower (Fernside)	Benjamin Smith, Esq.	5	1 0	340	..	22·47	164	119
D Loughton (The Summit)	Dr. F. Stoker	5	0 9	350	..	21·54	128	107
D Theydon Bois (Thrifts Hill)	H. Kemsley, Esq.	5	1 0	245	..	18·10	130	106
D Theydon Bois (Birch Hall)	Mrs. Gerald Buxton	5	1 0	300	..	19·98	126	108
d Theydon Bois (The Vicarage)	Mrs. M. C. Ames	5	0 10	240	..	(20·46)	..	..
D Theydon Bois (Fernside)	C. W. Browne, Esq.	5	0 8	250	..	19·77	138	103
D North Weald (Canes)	H. W. Hart, Esq.	5	1 0	250	..	20·67	133	105
3.—CROUCH. 186 sq. mi.								
D Shoeburyness (New Ranges)	The Meteorological Office	8	1 0	11	18·9	13·59	138	84
D SOUTHEND (The Cliffs)	The Corporation (Pier Master)	8	1 0	90	19·7	15·76	150	102
D Southend (S'thchurch Boulevard)†	H. J. G. Ralph, Esq.	8	1 0	66	..	16·01	141	104
D Southend (Waterworks)	Southend Water Works Co.	8	1 0	112	21·1	16·35	155	107
D Westcliff-on-Sea	Messrs. Boatman, F.S.M.C.	5	1 0	100	..	16·40	144	104
d Leigh Reservoirs	Southend Water Works Co.	5	1 0	177	..	17·17	..	..
D SHOEBURYNESS (Great Wakering)	Officer-in-Charge	5	1 0	11	18·4	14·84	145	92
D Eastwood Pumping Station	Southend Water Works Co.	8	1 0	50	..	18·14	158	107
D Thundersley Reservoir	Southend Water Works Co.	5	1 0	277	..	19·40	152	100
w Nevendon Pumping Station	Southend Water Works Co.	5	1 0	43	..	19·04	..	..
D Billericay (Service Tank)	Southend Water Works Co.	5	1 0	310	..	17·79	152	97
D Billericay (Ramsden Hall)	T. W. Bacon, Esq.	5	0 9	260	..	20·25	137	100
d Wickford (Runwell Hall)	Miss A. Kemble	5	0 7	75	24·2	20·54	..	113
D Southminster (Dudswell)	Mrs. H. G. Owen	5	1 0	60	..	16·67	133	101
d Southminster (The New Moor)	P. C. Attenborough, Esq.	5	1 6	72	..	14·11	..	..
D Bradwell-on-Sea (Bradwell Hall)	H. D. Chillingworth, Esq.	5	4 0	27	20·7	18·54	129	101
4.—BLACKWATER. 425 sq. mi.								
D South Hanningfield (Bearmains)	C. W. Gardner, Esq.	8	1 10	220	..	18·20	139	105
D Ingatestone (Trueloves)	W. Ransom, Esq.	5	1 0	249	..	20·63	162	98
D Ingatestone (Fryerning)	A. E. Christy, Esq.	5	1 0	290	..	21·08	173	107
D Danbury Park Gdns.	The Head Gardener	5	1 6	120	..	19·41	138	100
D Maldon	Town Clerk	5	1 0	14	..	17·52	140	96
D Writtle (Melbourne)	J. A. Rosling, Esq.	5	0 9	140	..	20·40	161	99
D CHELMSFORD (County Gardens)	The Prin. EAnglian Inst. Ag.	5	1 3	134	22·3	18·84	153	99
D Chelmsford (Little Baddow)	A. L. Woodhouse, Esq.	5	1 0	180	..	19·16	140	102
D Langford (Treatment Plant)	Southend Water Wks. Co.	8	1 5	40	..	20·35	153	100
d Witham (Wickham Hall)	D. B. Smith, Esq.	5	0 10	60	..	19·79	..	94
d Wickham Bishops	Mrs. Fowler	5	1 4	250	..	17·80	..	..
D Tolleshunt D'arcy (Oxley Hill)	H. Campkin, Esq.	5	0 9	100	..	19·36	165	112
D Pleshey Vicarage	Rev. C. H. B. Woodd, M.A.	8	1 3	200	..	18·52	181	102
D Terling Place Gdns.	B. May, Esq.	5	1 2	100	..	15·29	146	92
Witham (Faulkbourne Hall)	Miss C. L. Parker	5	0 8	100	..	16·55	..	98
D Little Leighs (Lavender Leez)	W. C. Neild, Esq.	5	1 2	192	..	18·62	161	98
D Messing Vicarage	Rev. W. G. Whittam	5	2 1	120	..	18·36	145	91
D Kelvedon (Lawn House)	F. Randolph-Symmons, Esq.	5	1 0	96	..	18·33	137	102
d Rivenhall (Parkgate Farm)	C. T. Richardson, Esq.	5	1 0	149	..	16·12	..	..
D Felsted School	E. H. Lockwood, Esq.	5	0 10	248	22·9	19·40	139	92
D Little Dunmow (Throws)	Mrs. D. Hasler	5	0 9	260	..	19·70	152	102
D Great Dunmow	Messrs. Hasler & Co., Ltd.	5	1 0	200	..	20·29	154	105
D Rayne (Staneway)	Mrs. Burt	5	1 6	247	..	20·72	144	104
D Great Bardfield (South Lodge)	A. W. Brunwin, Esq.	5	1 0	250	..	18·44	156	100

† Formerly at Kilworth Avenue.

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
ESSEX—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—COLNE & C. 283 sq. mi.								
d St. Osyth (Wigborough Wick)	P. B. Smith, Esq.	5	1 6	10	..	16·73	..	..
D Clacton-on-Sea (Hospital Site)	The Town Clerk	5	1 0	53	..	18·42	137	97
d Great Clacton (Clay Hall)	Miss E. A. Smith	5	1 0	45	..	19·72	..	101
D Walton-on-the-Naze	Clerk to the U.D.C.	5	1 0	60	..	18·61	142	92
D Colchester (King's Ford) *new g.*	Cmdr.E.A.Digby,R.N.,K.C.	5	1 0	103	..	20·06	135	102
d Colchester (Hythe Gas Works)	Colchester Gas Co.	8	0 10	12	..	18·83	..	..
D Colchester (Castle Park)	H. Collins, Esq., C.E.	8	1 2	87	..	21·89	163	107
D Colchester (Waterworks)	H. Collins, Esq., C. E.	5	1 5	37	..	19·22	153	99
D Lexden (Hill House, S. No. 2)	S. F. Hurnard, Esq.	5	1 0	90	..	18·93	147	90
D Great Bromley (Broughton)	W. A. Roberts, Esq.	5	1 0	115	..	18·14	137	95
D Earls Colne (Grammar School)	The Headmaster	5	1 0	168	..	19·38	155	98
D Halstead (The Brewery)	F. N. Adams, Esq.	5	1 0	140	23·0	18·70	148	94
Gt. Maplestead (Monk's Hall)	Miss J. Miller	5	1 0	200	23·5	16·79	..	..
D Great Yeldham Hall	G. A. Goodchild, Esq.	5	1 6	200	23·1	18·84	164	105
6.—STOUR. 110 sq. mi.								
d Dovercourt	Borough Surveyor, Harwich	5	1 0	47	21·1	(19·19)	(121)	(96)
D Mistley (The Maltings)	Messrs. Brooks (Mistley) Ltd.	8	1 0	25	22·2	18·47	143	99
D Langham Waterworks	S. Essex Waterworks Co.	5	1 0	44	..	18·35	160	100
7.—OUSE. 80 sq. mi.								
D Widdington Rectory	Rev. Jas. W. Court	5	1 0	340	..	18·91	140	96
d Great Chesterford Mills	E. H. King, Esq.	5	1 0	130	..	18·17	..	..
SUFFOLK. (Area, 1,489 sq. mi.)								
1.—STOUR. 271 sq. mi.								
D East Bergholt (Ackworth Ho.)	A. Harwood, Esq.	8	1 6	145	..	19·39	162	98
D Capel St. Mary School	Bernard B. Taylor, Esq.	5	1 6	156	24·2	20·64	177	106
D Assington Hall	Mr. E. J. Ottaway	5	1 0	200	22·5	18·44	153	100
D Great Cornard (The Limes)	E. Oliver, Esq.	5	0 9	85	..	18·56	145	108
D Sudbury (Friars St.)	E. Ransom, Esq.	5	1 6	93	23·2	19·38	181	112
D Sudbury (Waterworks Stn.)	The Borough Surveyor.	5	1 0	131	..	18·95	144	111
D Hadleigh (Penlands)	E. A. Lee, Esq.	5	1 0	185	24·4	21·56	169	108
D Waldringfield (Holbrook Hall)	Mrs. F Ramsay	5	1 1	185	23·6	19·25	149	124
D Clare (Nethergate House)	Lt.-Col. R. C. Bond, D.S.O.	5	1 0	130	..	18·34	166	107
D Long Melford (Westgate Ho.)	E. F. Colvile, Esq.	5	1 0	146	..	18·96	132	103
D Hartest (Chadacre Institute)	The Principal	5	1 0	250	..	21·28	171	113
2.—ORWELL. 166 sq. mi.								
D Copdock (+A)	F. L. Bland, Esq.	8	1 0	164	*24·5*	21·51	160	103
D Ipswich (Museum)	F. M. Cullum, Esq.	8	1 0	72	..	19·23	150	99
D Ipswich (All Saints' Vic.)	Rev. S. C. Calver	5	1 5	..	..	19·79	156	101
D Ipswich (Dale Hall)	Percy Turner, Esq.	8	1 0	135	..	20·44	153	103
Elmsett (Laurel Cottage)	A. E. Ladbrook, Esq.	5	2 0	210	..	19·99	..	106
D Nettlestead (High Hall)	A. S. P. White Cooper, Esq.	5	1 6	236	..	21·00	130	112
D Coddenham (Shrubland Park)	Mr. A. C. Horton	5	1 6	162	..	22·10	134	117
D Haughley (Haughley House)	Mrs. S. H. Creagh	5	1 0	180	..	18·93	145	107
D Haughley (Pine Lodge)	A. A. Geater, Esq.	5	1 6	131	..	19·19	171	114
3.—DEBEN & C. 466 sq. mi.								
D Felixstowe (Aerodrome) (+A)	Meteorological Officer	8	1 0	15	20·3	18·90	151	101
D Waldringfield	Major B. R. M. Glossop.	8	1 0	70	..	23·21	183	109
D Woodbridge Abbey	Col. R. J. Carthew.	8	1 0	46	..	23·66	157	112
D Orford (The Gables)	Miss E. A. Rope	5	1 1	30	..	22·49	175	122
Melton (Greylands)	Miss Jervis-White-Jervis	5	1 6	50	..	23·62	152	110
D Melton (St. Audrey's Hospital)	The Clerk and Steward	8	1 2	74	..	21·85	154	109

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SUFFOLK—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—DEBEN & C.—(*con.*)								
D Henley Hall	Mrs. Gascoigne	5	2 0	150	..	23·74	169	123
D Rendlesham Hall	Mr. H. Long	5	1 0	88	**23·1**	21·99	141	109
D Campsea Ashe (High House)	Viscount Ullswater, G.C.B..	8	1 0	60	23·0	21·23	147	113
D Aldeburgh (Sanditon)	Miss L. Austen-Leigh	..	..	..	..	19·79	141	107
Charsfield (Red House)	Hugh P. Youngman, Esq...	5	1 9	150	..	21·26	..	..
D Blaxhall	R. H. Sherwood, Esq	5	1 0	..	..	23·00	166	120
d Snape (Green Heys)	Mrs. G. H. Garrett	5	1 1	100	..	22·74	..	112
D Snape (Wadd House)	Capt. E. H. Buxton	5	1 0	25	..	22·42	152	110
D Leiston (Lower Abbey)	Miss M. K. Rope	5	1 0	30	..	21·79	161	111
d Heveningham Hall	Hon. A. Vanneck	5	0 7	100	..	24·11	139	121
D Southwold	E. G. Naunton Esq.	8	1 0	−1	..	21·10	145	114
D Halesworth (Highfield)	Admiral F. E. Bruen, C.B. .	5	0 6	90	..	21·68	180	115
D Southwold (Quay House)	Miss P. Corns	5	1 1	30	..	21·21	158	110
D Halesworth Rectory	Rev. H. C. Newbery	5	1 0	50	..	21·41	176	118
D Wangford (Ford House)	Hon. Agnes Eden	5	0 10	25	..	23·04	159	116
Wangford	F. W. Baker, Esq.	5	2 0	11	..	24·22	134	100
D Wrentham (Sotterley Hall)	M. E. St. J. Barne, Esq.	5	0 10	40	..	18·78	154	114
4.—YARE & C. 208 sq. mi.								
D Horham Rectory	Rev. J. E. Soden	5	1 3	175	..	23·45	156	105
D Yaxley	R. L. T. Clarkson, Esq.	5	1 0	162	..	21·83	174	112
D S. Elmham (St. James' Rec.)†	Rev. F. N. Keane	5	1 0	187	..	20·10	134	94
D BUNGAY (FLIXTON HALL)	Sir Shafto Adair, Bart	5	1 0	79	..	21·31	131	110
D LOWESTOFT (Secondary School)	The Town Clerk	5	1 0	82	23·5	19·10	151	113
D Lowestoft (Briar Clyffe)	H. Hollingsworth, Esq.	5	0 7	..	..	19·70	150	112
Blundeston House	L. J. Peto, Esq	8	1 1	30	..	20·09	..	..
D Herringfleet House	G. H. Wyllys, Esq	5	1 0	55	..	23·03	181	120
D Lound Pumping Station	Lowestoft Water & Gas Co..	8	1 0	34	..	19·27	168	111
D Hopton (Hopton House)	C. S. Orde, Esq.	6	1 0	..	..	19·42	156	108
D Fritton Warren	Maj.-Gen. R. Upcher, D.S.O.	5	1 0	42	..	22·94	137	123
D Fritton Hall	Major A. R. Buxton	8	0 11	30	..	22·22	174	117
D Yarmouth (Burgh Hall)	H. P. Frederick, Esq	5	1 0	40	***24·4***	23·99	176	120
5.—OUSE. 378 sq. mi.								
d Newmarket (Sewage Outfall)	W. H. Elev, Esq., C.E.	5	1 0	81	..	18·68	..	112
D Bury St. Edmunds (Southbridge Ho.)	Miss E. M. Branford	5	1 0	100	..	19·33	166	105
D Bury St. Edmunds (Whiting St.).	The late Rev. H. I. Kilner..	8	0 10	146	..	20·15	171	109
D Bury St. Edmunds (Westley H.)	Mrs. Burrell	5	1 0	226	**25·1**	19·52	144	117
d Bury St. Ed. (Beet Sugar Factory)	United Sugar Co., Ltd	5	0 6	159	..	15·97	..	..
D Fornham St. Martin	Mr. H. Parker	5	1 0	125	..	(16·28)	(135)	(102)
D Hengrave Hall	Sir John Wood, Bart	5	1 5	85	***23·1***	15·86	120	100
D Bury St. Edmunds (Troston Hall)	F. S. Beauford, Esq	5	1 0	130	..	18·49	150	115
D Mildenhall	H. R. W. Forster, Esq.	5	1 3	50	..	16·31	124	87
Barningham (The Beeches)	Miss A. K. Lingwood	5	0 9	136	..	18·55	..	..
D Elveden Hall	The Earl of Iveagh, C.B.	5	1 0	130	..	17·83	172	111
NORFOLK. (Area, 2,044 sq. mi.)								
1.—YARE. 658 sq. mi.								
D Diss (The Cedars)	Dr. H. M. Spiers	5	0 8	108	..	18·37	158	107
D Pulham St. Mary (Brook House)	E. Beevor, Esq	5	1 0	120	..	22·27	164	118
D Pulham St. Mary (Hill House)	W. G. Rutter, Esq	5	1 0	120	**24·7**	23·30	202	123
D Ditchingham	W. G. Rutter, Esq	5	1 0	25	**23·9**	22·26	207	118
d Beccles (Raveningham Hall)	N. H. Bacon, Esq.	5	1 6	60	..	21·21	..	116
D Hapton Parsonage	Lt.-Col. H. C. Copeman	5	1 0	100	..	20·42	157	115
D Spooner Row (School)	Owen Potter, Esq.	5	1 0	160	..	24·72	230	138
D Lodden (Chedgrave Manor)	C. E. Dupuis, Esq	5	1 6	17	**24·2**	18·58	164	108

† Previously at Rumburgh Vicarage.

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1934. Rain-fall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
NORFOLK—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—YARE—(*con.*)								
D **Wymondham (Morley School)**	T. E. Ormond, Esq	5	1 0	157	25·3	22·55	178	127
D **Wymondham**	J. B. Pomeroy, Esq.	5	1 3	118	..	23·69	163	127
D **Hingham**	F. B. Law, Esq.	5	1 0	193	25·1	21·46	174	120
D **Ketteringham**	Lt.-Col. R. F. Boileau	5	1 0	135	..	23·23	185	120
D **Keswick Old Hall**	E. Knight, Esq.	5	1 0	90	26·4	24·30	187	119
D GORLESTON (C. G. Station)	Station Officer (M.O.)	8	1 0	5	24·5	20·96	148	112
D **Norwich (Carrow Abbey Gdns.)**	The Misses Colman	5	1 0	40	25·2	22·01	173	121
D NORWICH (Southwell Lodge)	J. H. Willis, Esq.	5	1 0	110	25·9	22·46	180	117
D **Norwich (Heigham Cemetery)**	L. Alan Jewell, Esq.	5	1 2	37	25·5	21·12	176	109
D **Thorpe St. Andrew (Pine Banks)**	H. J. Jarrold, Esq.	5	1 7	140	..	21·74	181	120
Norwich (Marlingford Hall)	Major E. H. Evans-Lombe	5	1 0	50	26·9	25·44	144	..
D Norwich (Catton Hall)	D. G. Buxton, Esq.	..	1 0	100	..	21·42	161	114
D **Sprowston (Oak Lodge)**	A. Cozens Hardy, Esq.*	5	1 0	100	25·2	22·29	198	115
d **Drayton Hall**	C. H. Walter, Esq.	5	1 0	..	26·0	25·31	..	117
D Taverham (Deighton Hills)	T. B. Norgate, Esq.	5	1 3	100	..	23·02	180	122
D **Swanton Morley Rectory**	Rev. R. N. Usher	5	1 0	105	24·3	23·64	160	118
D **Bylaugh Park**	Mrs. Rice	5	1 0	..	24·8	22·82	162	125
D **Swanington (Heath House)**	P. Norgate, Esq.	5	1 3	101	25·6	23·55	182	117
D **East Bilney Hall**	K. W. Hervey, Esq.*	5	1 0	140	26·6	21·50	147	116
D Cawston (The Poplars)	H. A. Wells, Esq.	5	0 8	120	26·6	22·89	168	118
2.—YARE—Bure & c. 369 sq. mi.								
D **Acle**	Miss Davie*	5	0 6	51	25·1	22·27	175	117
D Norwich (SPROWSTON Church Farm)	Director, Norfolk Ag. Stn.	5	1 0	93	..	21·88	163	111
D **Yarmouth (Ormesby St. Michael)**	Gt. Yarmouth W.W. Co.	8	1 0	22	26·2	19·82	190	113
D Yarmouth (Scratby)	Harvey Palmer, Esq.	5	1 0	70	..	19·04	173	104
D **Coltishall Hall**	Rev. H. Rogers.	5	1 6	25	25·5	22·61	165	116
d Wroxham (Hoveton House)	Mrs. I. C. Blofield	5	2 2	100	..	22·67	..	109
D **Buxton (Sunnymead)**	W. S. Tillett, Esq.	8	1 0	50	..	21·91	176	113
d Aylsham (Rippon Hall)	Rev. A. F. Marsham*	5	0 7	90	..	23·91	..	107
D Aylsham (Woodgate Ho.)	Lt. Col. P. W. Purdy*	5	1 0	100	..	22·42	158	116
D Worstead (Hollygrove Ho)	Mr. F. J. Frostick	5	1 0	65	..	20·54	168	114
D **Worstead (Lyngate Cottage) (+A)**	Miss F. E. Hooper	8	1 6	50	26·5	19·01 ?	175	113
D Hindolveston (School House)	The Headmaster	5	1 0	300	..	22·91	187	131
D **North Walsham (The Paston Sch.)**	Major P. Pickford	5	1 0	100	..	20·03	177	107
D **Walcott-on-Sea**	Lt.-Col. R. S. Hunt, D.S.O.	5	1 0	20	..	17·80	161	111
D **Cromer (Northrepps Hall)**	Lt.-Col. C. R. Gurney	5	1 2	225	26·7	17·90	152	116
D **Hanworth Rectory**	Rev. Wilson W. White	5	0 10	95	..	21·00	181	116
3.—STIFFKEYS & C. 290 sq. mi.								
D **Sandringham House Gardens**	Mr. T. H. Cook	5	0 9	121	27·0	21·65	160	123
D Thorpland Hall	Miss C. Lee Warner	5	1 0	157	..	21·38	198	119
D **Syderstone (The Rectory)**	Rev. B. D. Reed	5	1 0	210	..	19·81	163	121
D Snettisham (The Hollies)	Dr. R. Telford Martin	5	0 8	25	..	19·02	158	112
d Melton Constable Park	The Head Gardener	8	0 11	287	..	(22·01)	(158)	(122)
D **Cromer (The Warren)**	The late F. H. Barclay, Esq	5	1 0	101	24·1	20·85	162	114
D CROMER (Howards Hill)	Clerk to the U.D.C.	8	1 0	178	23·8	20·29	168	110
D West Runton	Miss J. Vernon-Harcourt	5	1 0	113	..	20·60	137	112
D **Holkham (Longlands)**	Earl of Leicester, G.C.V.O.	5	0 10	200	..	20·50	167	118
D **Langham Episcopi**	Lt.-Col. F. S. Butcher*	5	0 6	139	23·2	21·65	190	120
D **Sheringham Hall**	Miss E. Upcher	5	0 9	130	23·6	19·46	139	113
D Sheringham (Skelding)	F. Hall Smith, Esq.	5	1 0	60	..	20·87	152	113
Sheringham (Sheringham Ho.). †	Rev. E. C. S. Upcher	5	1 6	20	..	19·34	155	107
D **Wells (Holkham Hall)**	Earl of Leicester, G.C.V.O.	5	0 3	43	23·1	20·11	172	129
D Hunstanton (Le Strange Arms H'l.)	C. Ernest Gray, Esq.	5	1 0	20	..	18·04	151	107
D HUNSTANTON	The Advancement Assn.	5	1 1	105	..	17·37	172	100

* *Per* Norfolk Rainfall Organisation.

† Previously at Coastguard House.

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
NORFOLK—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—OUSE & C. 708 sq. mi.								
D Garboldisham Manor	Major E. W. Denny, D.S.O..	8	1 0	70	23·2	18·96	167	106
d Thetford (Ford Street Gdns.)	The Head Gardener	5	1 0	44	23·4	19·29	..	..
D Thetford (Kilverstone Hall)	Baron Fisher of Kilverstone	8	1 0	70	21·7	21·37	166	113
D Thetford (Waterworks)	C. W. Holmes, Esq.	8	1 0	165	23·8	20·44	174	112
d Attleborough (Quidenham Hall)	Earl of Albemarle	5	1 0	100	24·1	19·83	..	107
D Thetford (Lynford Nursery)	Forestry Commission	5	1 0	99	..	20·80	179	113
D Old Buckenham (The Grange)	W. D. Haughton, Esq.	5	1 1	180	..	22·04	167	118
D Hargham Hall	Sir H. R. Beevor, Bart. M.D.	5	0 6	100	24·9	21·53	178	114
D Methwold (Duchy of Lancs. Sch.)	The Headmaster	5	0 9	50	..	18·58	151	107
d Attleborough (Breccles Hall)	J. E. Fitt, Esq.	5	0 6	..	..	19·55	..	..
D Buckenham (Tofts Hall)	A. H. Abraham, Esq.	5	1 3	50	..	19·53	136	104
D Caston (Flaxmoor)	Lt.-Col. T. S. N. Hardinge..	5	1 1	150	..	19·95	174	115
D Watton	A. A. Gompertz, Esq.	5	1 0	200	25·7	21·23	165	115
D Great Cressingham	J. W. Montgomery, Esq.	5	1 0	90	..	21·21	181	123
D Downham (Dial House)	Messrs. T. H. Wenn & Co.	5	1 6	..	..	20·64	156	116
D Downham (High Street)	J. M. Jackson, Esq.	5	1 3	16	..	18·71	146	116
d Outwell (Well Creek Sluice)	L. I. Clark, Esq.	8	2 6	16	22·0	18·15	..	118
D Wimbotsham School	The Headmaster	5	1 0	43	..	20·67	162	111
d Wallington Hall	J. L. Luddington, Esq.	5	1 0	58	23·7	21·83	..	114
D Swaffham (The Villa)	Mr. J. H. Mack	5	0 9	246	26·3	24·99	146	123
d Swaffham	Messrs. Vynne & Everett, Ltd.	5	2 7	210	..	22·77	(141)	(117)
D Sporle	T. S. Matthews, Esq.	5	4 0	230	..	21·76	176	127
D Little Dunham (Dunham Cott.)	Miss S. Blamire	5	1 0	319	27·2	23·71	157	132
D Wiggenhall (St. Germans Sluice)	L. I. Clark, Esq.	8	1 6	..	23·1	20·19	156	118
D East Winch (Holland House)	J. C. Cottam, Esq.	5	1 6	55	23·3	20·92	169	117
d Terrington St. Clement (C. Sch.)	The Headmaster	5	0 8	15	..	21·26	..	112
D Gayton Waterworks	J. C. Matthew, Esq., C.E.	5	1 0	131	..	20·94	151	108
d King's Lynn (Manure Works)	J. Brown, Esq.	5	1 2	10	..	17·59	..	95
D Tittleshall	Capt. H. G. Buxton	5	1 6	285	26·8	21·53	157	128
D Grimston (School House)	J. R. Steward, Esq.	5	1 2	62	..	20·62	166	109
5.—NENE. 19 sq. mi.								
D Emneth (Inglethorpe Manor)	Miss R. Bland	5	1 0	6	22·4	18·39	164	107

DIVISION V—SOUTH-WESTERN COUNTIES.

WILTSHIRE. (Area, 1,375 sq. mi.)

1.—LOWER AVON. 386 sq. mi.								
D Westbury (Braemar)	Mrs. F. D. Richards	5	1 0	250	..	30·29	162	124
D Market Lavington (Old House)	Miss A. Pleydell Bouverie..	5	0 9	290	29·0	25·08	154	117
Gt. Cheverell (Timoleague)	Rev. H. S. Travers	5	0 6	360	..	26·78	..	..
D Easterton (Kestrals)	R. Lake, Esq.	5	1 0	370	..	25·40	154	117
D Trowbridge (Adcroft Boys' Sch.)	E. L. Bingham, Esq.	5	1 0	156	..	28·68	146	126
D Trowbridge (Town Hall)	The Engineer	8	1 2	131	..	27·40	161	118
D Bradford (Winsley Manor)	E. W. Knatchbull, Esq.	5	0 8	400	29·9	31·13	164	113
D Bradford (Manvers House)	Dr. C. E. S. Flemming	5	1 3	130	29·9	29·30	160	129
d Seend (Cleeve House) (R)	Lt.-Col. W. C. Heward Bell.	8	1 0	160	27·5	25·44	177	..
D Holt (The Retreat)	A. V. H. Beaven, Esq.	5	1 0	145	30·3	30·78	162	128
d Seend (Ferrum Towers)	Mrs. A. C. Haigh	..	..	..	..	25·77	..	..
d Devizes (Wilts Co. Mental Hosp.)	Dr. S. J. Cole	8	2 5	395	..	25·37	..	..
D Devizes (Broadleas)	W. H. L. Ewart, Esq.	5	1 0	400	..	25·25	176	117
D Rowdeford Gardens (R)	Mrs. R. E. S. Thomas	8	2 0	..	..	25·96	151	122
D Great Chalfield	Major R. F. Fuller	5	1 2	165	28·6	29·10	157	125
D Little Chalfield	Miss C. E. Baker	5	1 0	180	..	28·47	183	130
D Bowood House	The Marquess of Lansdowne, K.G., P.C.	5	0 4	306	..	27·34	165	125
D Calne (Castleway)	The late E. W. Brown, Esq.	5	1 0	250	28·9	25·93	159	129
D Calne (Compton Bassett Gdns.)	L. F. Board, Esq.	5	0 10	384	30·7	28·94	160	127
D Chippenham (Monkton Park)	Lord Methuen	5	1 0	200	..	25·38	152	120
Chippenham (Kington Langley)	Mrs. Charles Garnett	8	1 0	172	30·3	27·00	..	..
D Grittleton	Lt.-Col. Sir A. D. Neeld, Bt., D.L., C.B.	..	..	..	..	27·61	155	124
D Wroughton (Basset Down Ho.)	Mrs. Arnold Forster	5	1 0	500	29·8	27·28	152	116
D Tockenham Manor	Major G. J. Buxton	5	1 0	400	..	24·78	159	116

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
WILTSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—LOWER AVON—(*con.*)								
w Luckington Court	Col. Sir E. Johnson-Ferguson, Bt.	5	0 8	400	30·2	24·06	..	..
D Sherston School	The Headmaster	5	1 0	375	..	25·74	163	116
D Malmesbury (Lea House)	Rev. H. Milnes-Walker	5	1 0	260	..	25·67	157	118
D Malmesbury (Easton Grey)	Mr. P. A. Day	5	1 0	355	31·6	25·52	165	118
2.—STOUR. 33 sq. mi.								
D Mere (Charnage)	A. R. White, Esq	5	1 6	426	33·8	30·19	179	135
D Stourhead	Sir H. H. A. Hoare, Bart	5	1 0	583	38·1	38·98	186	141
D Kilmington Rectory	Rev. H. G. Fox Strangways*	5	1 0	710	39·8	40·09	203	146
3.—EAST AVON. 554 sq. mi.								
D Broadchalke	Mrs. H. N. Burroughes	5	4 1	362	..	33·84	169	129
D Longford Castle Gardens	The Earl of Radnor	5	1 0	139	31·4	30·29	178	122
D Salisbury (Harnham)	E. F. Taunton, Esq., Junr.	5	1 0	200	..	30·13	181	122
D Salisbury (Folkestone Rd)	M. A. Chaplin, Esq.	5	0 8	190	..	29·55	148	120
D Tisbury (Lower Lawn House) †	H. B. Cooper, Esq.	5	1 9	500	..	31·34	154	127
D Fonthill House Gardens	Hugh Morrison, Esq.	5	1 0	400	37·8	35·74	164	134
D Salisbury (Sewage wks.) (+A)	H. V. Overfield, Esq., C.E.	5	1 0	153	..	26·59	153	111
D Salisbury (Manor Road)	Miss L. C. D. Awdry	5	1 0	250	29·2	27·73	179	117
D Salisbury (Atherton House)	Wilfrid Fletcher, Esq.	5	1 0	250	30·4	27·75	169	114
d Salisbury (Newlands)	Dr. T. W. Newton Dunn	5	1 0	175	..	27·61	(146)	(114)
D Stratford-sub-Castle (Manor Ho.)	Miss F. Carpenter	5	0 9	168	28·3	27·71	153	123
D Woodford Vicarage	Rev. M. I. Holme	5	0 10	200	..	30·19	189	130
D Porton (W.D. Exp'l. Stn.) (+A)	Meteorological Officer	5	1 0	363	26·5	26·26	157	114
D Steeple Langford (Woodstock)	Miss A. J. Powell	5	1 0	257	..	28·27	174	124
D Maiden Bradley House	The Duke of Somerset	5	1 0	620	38·4	35·81	140	130
D Maiden Bradley	R. Luff, Esq.*	4	3 0	600	..	35·13	152	140
▽ Amesbury (Boscombe Down Aero.) (+A)	Meteorological Officer	8	1 0	417	..	27·13	161	112
D Heytesbury	Dr. Hammond T. Hinton	5	1 0	300	31·7	28·11	153	123
D Warminster (Henford)	Mrs. Robinson	5	1 8	400	..	35·05	171	145
D Warminster (St. John's Lodge)	D. Vesey, Esq.	5	1 6	400	..	30·55	162	130
D Larkhill (School of Artillery) (+A)	Meteorological Officer	5	1 0	440	25·5	29·15	173	117
D Warminster (Smallbrook Ho.)	G. E. Vicary, Esq.	5	0 8	420	..	31·45	165	126
D Orcheston St. Mary	Mrs. Smith	5	0 9	285	..	27·82	156	120
d Tilshead (The Manor House)	C. A. Kempson, Esq.	5	1 0	300	..	(26·06)	(164)	(120)
d Marlborough (Wilcot Manor)	Lady Ernest St. Maur	5	1 0	400	..	29·86	..	..
D Bishops Cannings	A. J. Combes, Esq.	5	1 0	446	30·3	27·26	183	133
4.—TEST. 77 sq. mi.								
D Landford (Northlands)	Cedric R. Boult, Esq.	5	1 0	180	30·7	30·22	159	116
D West Grimstead	W. W. Wadsworth, Esq.	5	0 9	250	..	30·80	160	122
D Ludgershall (Conholt Park)	E. A. Wigan, Esq.	8	1 0	800	33·9	31·30	177	131
5.—THAMES—Kennet. 169 sq. mi.								
D Bishops Cannings (Shepherds Shore)	C. G. Barrett, Esq.	8	2 1	564	..	29·29	178	129
D Marlborough (College)	The Headmaster	5	1 3	424	31·1	29·61	168	124
Marlborough (Salisbury Road)	E. Kinder, Esq.	5	1 11	450	..	29·48	..	..
D Rockley Manor	Maj. E. Fitz-Herbert Wright	5	1 0	600	..	26·54	171	125
D Aldbourne (Manor House)	Capt. W. Brown, J.P.	5	1 0	435	..	27·97	169	127
D Aldbourne (Upham House)	Lady Currie	5	1 2	881	30·3	31·23	152	124
6.—THAMES—Cole & c. 156 sq. mi.								
D Wroughton (Swindon W.W.)	J. B. L. Thompson, Esq., C.E.	5	1 2	448	..	26·80	155	117
D Chiseldon (Hodson House)	A. Ashford, Esq.	5	0 9	560	29·0	27·08	171	123
D Swindon (Volta Road)	H. Cook, Esq.	5	1 0	330	..	24·46	141	113
D Swindon (Town Gardens)	J. B. L. Thompson, Esq., C.E.	5	1 4	471	27·5	23·64	162	117
D Purton (Restrop House)	Col. A. Canning	5	1 3	444	27·7	22·85	142	115
d Fairford (Marston Hill)	Maj. R. Hamilton Stubber,	5	0 10	350	..	23·82	..	111

† Formerly at Fonthill Gifford (Beckford Lodge).

* *Per* Mid-Wessex Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
DORSETSHIRE. (Area, 988 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—PARRETT. 61 sq. mi.								
D Evershott (Melbury House)	Mr. W. G. Lee	5	2 0	460	38·7	42·96	152	134
D Chedington Court	Sir Henry Peto, Bart	8	1 0	605	38·5	38·62	171	135
D Sherborne Castle	Mr. Edwin Hill	5	1 0	195	32·5	30·17	179	131
D Sherborne (Crendle Court)	A. Tyrwhitt Drake, Esq.	5	0 9	380	..	31·25	171	133
D Sherborne (Barton Gardens)	C. E. Bean, Esq., C.E.	8	1 0	285	..	28·67	174	130
Sherborne (Castleton)	Reading T. Grantham, Esq.	5	1 0	220	31·8	31·66	..	..
2.—AXE. 25 sq. mi.								
D Broadwindsor (Blackdown Ho.)	Lt.-Col. C.E.St.J.Harris-St.John	5	1 0	530	..	36·27	178	129
D Forde Abbey	G. D. Roper, Esq.	5	0 10	200	37·7	38·38	152	125
3.—FROME & C. 502 sq. mi.								
D Portland Bill (Lighthouse) *new g.*	Lightkeeper (M.O.)	8	1 0	32	..	24·75	140	117
d Portland (H.M. Naval Depot)	The Works Officer	8	1 0	25	..	28·61	..	..
D Weymouth (Lansdowne Villa)	Paym.-Capt. T. Seaman, R.N.	5	7 0	100	..	27·67	150	115
D Weymouth (Westham) (+A)	The Town Clerk	5	1 0	16	28·0	26·86	143	110
D Weymouth (Springfield)	Major J. H. C. Devenish	5	1 3	96	27·9	26·99	165	112
D Radipole (Abbots Court)	C. E. M. Pinney, Esq.	5	0 9	58	..	27·56	141	110
D Chickerell (Montevideo)	Mrs. N.M. Richardson, O.B.E.	5	1 0	100	28·9	26·66	185	120
D Tyneham House	Mrs. W. H. Bond	8	1 0	255	32·8	30·44	159	109
D Steeple (Manor House)	Major F. H. Swann	5	1 0	231	34·8	32·13	173	135
D Creech Grange	J. W. G. Bond, Esq., C.B.	5	1 0	228	37·1	34·38	147	119
D Langton Herring (The Manor)	E. A. Sparks, Esq.	5	1 0	160	..	26·99	169	116
D Winfrith Rectory	Rev. C. S. Pugh	5	3 0	200	..	32·70	156	108
D Abbotsbury (West Street)	J. C. P. White, Esq.	5	1 6	147	29·2	28·99	147	119
D Abbotsbury (Cotoneaster)	A. H. White, Esq.	5	1 0	157	..	28·04	155	119
D Upwey (Friar Waddon)	R. Davison, Esq.	5	1 0	215	..	29·18	155	118
D Upwey (Higher Well)	R. Davison, Esq.	8	1 0	289	..	30·53	159	115
D Wareham (East Holme)	Miss L. S. Bond	5	1 0	23	33·9	32·61	158	115
D Wareham (The King's Barrow)	Major R. Feilden	5	1 4	15	31·8	32·75	178	119
D Wareham (Binnegar Hall)	Mr. J. W. Hayward	5	1 0	65	33·8	32·11	166	116
D Wareham (Stockford)	W. Bond, Esq.	8	1 0	65	33·4	32·01	170	122
D Wareham (Trigon)	Mrs. L. Sturdy	8	1 4	60	32·1	30·78	168	114
D Dorchester (Littlemayne)	E. R. Sykes, Esq.	5	1 0	200	..	33·73	159	113
D Dorchester (Kingscote)	Mrs. H. M. Ffooks	5	1 0	226	38·3	33·26	146	118
D Dorchester Waterworks	H. D. Strange, Esq.	8	1 0	314	36·6	36·81	156	120
D Dorchester (Stinsford)	J. Wyndham Hull, Esq.	5	1 0	207	37·4	35·96	152	124
d Dorchester (Birkin House)	Col. W. H. F. Weber, C.M.G., D.S.O.	5	1 0	230	37·4	36·14	..	..
D Puddletown (Clyffe Ho.) (A)	Maj. W. Van de Weyer	8	4 0	200	..	28·83	173	118
D Poole (+A)	Medical Officer of Health	5	1 0	18	..	27·89	158	113
D Poole (Pitwines Gasworks)	P. G. G. Moon, Esq.	8	1 0	8	..	28·46	152	115
D Poole (Holton Heath R.N. Cordite Fac.)	The Superintendent	8	1 0	64	..	27·91	154	104
D Parkstone (Balmoral Rd.)	Mrs. P. V. Hall	5	1 0	..	..	30·64	180	117
D Parkstone (Firgrove)	F. R. Wadman, Esq.	5	1 0	175	28·6	25·47	164	115
D Parkstone (Rosemead)	S. Hyla Greves, Esq.	5	1 0	172	..	29·56	158	117
D Parkstone (Parkside Road)	H. Blanchard, Esq.	8	1 2	150	..	26·93	160	113
d Parkstone (St. Osmund's Road)	A. D. Stables, Esq.	5	1 3	60	32·2	29·17	..	114
D Parkstone (The Laurels)	J. N. Blanchard, Esq.	5	1 2	115	..	28·44	152	112
D Branksome (Bourne Valley)	P. G. G. Moon, Esq.	8	1 3	84	30·0	27·28	148	115
D Branksome (Alderney Res.)	P. G. G. Moon, Esq.	8	1 3	213	..	29·84	168	117
D Broadstone (Sewage Works)	J. Bantten, Esq.	5	1 0	26	29·2	25·94	153	115
D Lyme Regis (Horn Bridge)	E. T. Stoward, Esq.	5	1 0	83	33·2	32·90	166	133
D Lyme Regis (Rotherfield)	Rev. E. J. Synge	5	1 0	145	34·3	32·61	183	130
D Lyme Regis (Overton)	C. Wanklyn, Esq.	5	0 10	400	30·9	31·56	197	131
D Bridport (Coneygar)	Bridport Waterworks Co.	5	1 0	110	32·9	29·26	160	123
D Bridport (Symondsbury)	P. G. Fry, Esq.	5	1 0	83	..	30·52	171	126
D Bridport (Ryall)	W. T. Bridges, Esq.	5	1 6	460	..	34·89	164	128
D Tolpuddle Parsonage	Mrs. Ashton Radcliffe	5	1 0	100	32·9	33·42	155	126
D Puddletown Vicarage	Rev. Canon A. L. Helps	5	4 6	200	35·8	35·07	155	132
D Bere Regis (Barrow Hill)	A. E. Lucas, Esq.	5	1 0	120	32·9	29·28	143	112
D Bere Regis (Bloxworth House)	F. G. A. Lane, Esq.	5	1 6	118	33·7	30·49	154	119
D Broadstone (Grange Road)	E. Nimmo, Esq.	5	1 0	160	..	29·46	166	119

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
DORSETSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—FROME & C.—(*con.*)								
D Wynford House	Lt.-Col.LordWynford,D.S.O.	5	1 0	410	43·5	44·77	196	140
D Netherbury (The Chantry)	Lt.-Col. H. L. Kitson	5	1 0	150	35·2	37·58	181	138
d Stoke Abbott (Brimbley Coombe Farm)	Mrs. A. Peto	5	1 0	550	..	38·09	..	..
D Beaminster (Farrs)	Fiennes Trotman, Esq.	5	1 0	183	37·6	39·63	188	139
D Minterne	Col. The Lord Digby, D.S.O.	5	1 0	800	..	35·54	178	128
4.—STOUR. 388 sq. mi.								
D Kinson (Eglinton)	W. C. Keevil, Esq.	5	1 6	45	..	29·41	142	115
D Lytchett Matravers (Kit Robins)	H. Blanchard, Esq.	5	1 0	300	..	29·31	157	108
D Wimborne (Corfe Mullen W.W.)	G. V. Sparrow, Esq., C.E.	5	1 0	81	32·9	29·90	148	113
d Wimborne (Corfe Mullen, For. Hill)	E. Philip Belben, Esq.	8	1 0	300	32·5	30·35	..	126
D Winterborne Whitchurch Vic.	Rev. H. H. Tilney Bassett.	8	1 0	240	35·8	32·23	143	121
D Sturminster Marshall	F. Hewitt, Esq.	8	1 0	85	32·6	31·30	153	124
D Wimborne (Stapehill)	W. J. Marchant, Esq.	5	1 0	95	..	30·24	161	122
D Wimborne (Walsford Bridge P.S.)	P. G. G. Moon, Esq.	8	1 3	70	..	31·93	159	123
D Wimborne (Melbury Lodge)	Rev. W. S. Clarke	5	1 6	150	..	32·11	152	132
D Wimborne (Codford House)	G. H. Batterbury. Esq., M.D.	5	1 0	69	34·5	29·59	178	114
D Wimborne (Uplands)	E. Percy Sugden, Esq.	5	0 10	..	..	30·93	166	120
D Blandford (Cliff St.)	E. Westcott, Esq.	5	1 0	152	..	34·28	162	129
D Blandford (King's Road)	D. Blanchard ,Esq.	5	1 0	195	..	31·62	168	131
D Blandford (Bryanston Gdns.)	Mr. J. Jaques	5	1 0	185	..	(35·53)	168	140
D Blandford (Letton)	Brig.-Gen. B. F. B. Stuart, C.M.G.	8	1 8	240	..	31·52	159	126
D Glanville's Wootton (Manor Ho.)	H. B. Debenham, Esq.	5	0 9	350	35·2	32·87	172	130
D Holwell (Westrow House)	Miss H. B. Warry	5	1 0	252	34·4	28·49	144	115
D Wimborne St. Giles (St. Giles Ho.)	The Earl of Shaftesbury, K.P.	5	1 0	165	33·4	32·05	144	116
D Child Okeford Manor	J. H. L. Glasbrook, Esq.	5	1 0	250	..	32·97	164	129
D Iwerne Minster (Preston House)	Major H. W. Aston	5	1 0	220	33·2	31·19	162	125
D Iwerne Minster Vicarage	Rev. R. A. Bond	5	1 3	234	..	31·74	169	128
D Sturminster Newton (The Vicarage)	B.Duffett, etc.	5	0 9	..	..	30·31	166	126
D Sturminster Newton	Louis Dawes, Esq.	5	1 0	225	..	30·37	167	126
d Iwerne Minster (West Lodge)	Lt.-Col. H. S. Woodhouse	5	1 1	600	..	(36·70)	(168)	(134)
D Fontmell Magna (Glebe Cottage)	Dr. J. Appleyard	5	1 0	300	..	29·85	149	121
D Stalbridge School	W. Lovell, Esq.	5	0 8	268	..	29·56	170	130
D Marnhull	W. Gaye, Esq.	5	1 4	220	..	31·11	166	131
Pentridge (Cobley)	F. B. Eastwood, Esq.	5	1 0	500	..	31·76	..	..
D Cann	Miss G. A. Macdonell	5	1 0	600	..	28·42	162	123
D Fifehead Magdalen	H. Wells, Esq.	5	1 0	500	..	31·48	160	124
D SHAFTESBURY (C.E. School)	The Headmaster	5	1 0	722	32·5	24·46	160	131
D Bourton	H. H. Genge-Andrews, Esq.*	8	1 0	300	..	29·58	160	133
5.—EAST AVON. 12 sq. mi.								
SOUTH DEVONSHIRE. (Area, 1,707 sq. mi.)								
1.—PARRETT. 7 sq. mi.								
2.—TAMAR & C. 395 sq. mi.								
d Plymouth (Boveysand Lodge)	Rev. J. F. Case	5	1 6	75	34·1	33·91	..	135
D§PLYMOUTH (MT. BATTEN AERO.) (+A)	Meteorological Officer	8	1 0	82	..	31·24	169	125
D PLYMOUTH (THE HOE) +(A)	H. Victor Prigg, Esq., C.E.	8	1 0	117	36·7	39·46	193	142
D Plymouth (Drake's Reservoir)	A. Atkinson, Esq. C.E.	5	1 0	149	37·5	34·89	172	132
D Plymouth (Freedom Park) (+A)	H. Victor Prigg, Esq., C.E.	8	1 0	208	39·4	39·13	186	143
d Devonport (Admiralty House)	Commander-in-Chief	5	1 0	76	..	39·11	195	146
D Devonport (Rowdens Res.)	A. Atkinson, Esq., C.E.	5	1 0	201	35·1	36·84	171	140
D Plymouth (Hartley Reservoir)	A. Atkinson, Esq., C.E.	5	1 0	321	39·9	43·24	166	143
D Bickley (Roborough Reservoir)	A. Atkinson, Esq., C.E.	5	1 0	548	46·2	53·03	214	152
D Roborough (Maristow Gdns.)	G. F. Hedger, Esq.	5	1 0	80	..	53·75	193	153
D Yelverton (Oakfield)	H. Edgcumbe, Esq.	5	1 0	535	51·8	61·95	224	164
D Sheepstor (Redstone)	A. Atkinson, Esq., C.E.	5	1 0	760	59·0	67·82	239	172
D Sheepstor (Burrator)	A. Atkinson, Esq., C.E.	5	1 0	755	59·1	60·98	240	174
D Sheepstor (Head Weir)	A. Atkinson, Esq., C.E.	5	1 0	720	57·0	63·72	240	168
D Dousland Reservoir	A. Atkinson, Esq., C.E.	5	1 0	721	51·8	61·42	216	165
M Dartmoor (Deancombe Farm)	A. Atkinson, Esq., C.E.	5	1 0	807	..	69·80	..	..
D Dartmoor (Lowery)	A. Atkinson, Esq., C.E.	5	1 0	899	..	54·16	239	165
M Dartmoor (Leather Tor Farm)	A. Atkinson, Esq., C.E.	5	1 0	910	59·0	63·05	..	..

* *Per* Mid-Wessex Rainfall Association. § Exposure not orthodox.

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SOUTH DEVONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—TAMAR & C.—(*con.*)								
M Dartmoor (Siward's Cross)	A. Atkinson, Esq., C.E.	5	1 0	1074	..	71·40	..	..
D Whitchurch (Grenofen)	H. Chichester, Esq.	5	1 2	325	46·1	52·02	218	165
D Whitchurch (Langstone)	F. J. R. Coleridge, Esq.	5	1 0	700	51·4	61·48	197	170
D Whitchurch (Holwell)	F. C. Radcliffe, Esq.	5	1 2	500	..	57·02	221	172
D Tavistock	W. J. Monk, Esq.	5	1 0	457	47·6	50·62	212	163
D Horrabridge (Furzetor)	Col. M. C. Collier	8	0 11	550	..	63·53	217	175
D Tavistock (The Library)	The Librarian	8	1 8	282	44·8	48·64	192	156
M Dartmoor (Double Waters)	A. Atkinson, Esq., C.E.	5	1 0	1165	64·2	63·45	..	..
M Dartmoor (N. Hessary Tor)	A. Atkinson, Esq., C.E.	5	1 0	1398	..	66·15	..	..
D Mary-Tavy (Blackdown)	H. K. G. Rogers, Esq.	5	1 0	855	..	61·20	220	181
N. Brentor (Langstone)	H. Curtis Gallop, Esq.	5	..	700	..	54·68	..	..
D Coryton Manor	R. L. Newman, Esq.	5	1 2	450	43·5	45·76	195	169
D Lifton (Tulip Trees)	R. H. Arundell, Esq.	5	1 2	350	..	49·32	232	164
D Lew Down (Coombe Trenchard)	H. M. Sperling, Esq.	5	1 0	450	44·0	47·04	202	171
D Lydford (Naseby)	Col. H. E. Molesworth, C.M.G., D.S.O.	5	1 0	950	..	59·50	218	180
D Werrington Park	Mr. R. M. Gregory	5	4 8	600	..	45·26	213	166
D Ashwater Rectory	Rev. G. D. Melhuish	5	1 0	500	43·0	41·04	192	161
D Holsworthy (Bodmeyric)	W. J. Rogers, Esq.	5	0 11	476	..	42·74	213	169
3.—ERM & C. 217 sq. mi.								
D Salcombe (Fairhaven)	C. Shillitoe, Esq.	5	1 0	150	..	33·20	176	132
D West Alvington	Rev. H. C. B. Lethbridge	5	1 0	180	..	37·76	181	137
d Kingsbridge	W. N. Patey, Esq.	5	1 6	150	..	38·36	(166)	(139)
D Stoke Fleming (Windward)	Miss E. L. Garrett	5	1 0	380	..	41·86	200	148
D Yealmpton (Torre)	Miss M. Wimbush	5	0 11	100	35·5	39·95	203	145
D Yealmpton (West Park)	D. M. Yonge, Esq.	5	1 3	150	..	41·59	179	145
D Ermington (Strode)	Capt. H. Gore Hawker	5	1 0	75	41·4	43·61	196	149
D Ivybridge (Filham House)	H. Alger, Esq.	5	1 0	160	46·0	43·72	197	155
D Wrangaton (Plymouth M. Hos.)	H. Victor Prigg, Esq., C.E.	5	1 0	607	54·2	44·84	172	155
South Brent (Beechfield)	Miss Kingwell	5	1 0	500	61·0	65·49	198	165
D South Brent (Badworthy)	Miss D. B. Latham	5	1 2	550	64·4	76·27	190	167
South Brent (Didworthy San.)	The Medical Officer	5	1 0	675	..	72·67	162	123
D South Brent (Brent Moor)	W. E. Nicholls, Esq.	8	0 9	850	..	93·89	234	179
Cornwood (Yealm Head No. 5)	W. H. Thompson, Esq., C.E.	5	1 0	540	..	64·61	204	174
Cornwood (Yealm Head No. 1)	W. H. Thompson, Esq., C.E.	5	1 0	943	..	74·24	..	..
D S. Brent (Brentmoor House)	W. A. Pritchard, Esq.		..	1000	..	86·39	189	168
§Cornwood (Yealm Head No. 2)	W. H. Thompson, Esq., C.E.	5	1 0	1305	..	70·53	..	..
Cornwood (Yealm Head No. 4)	W. H. Thompson, Esq., C.E.	5	1 0	1415	..	74·98	..	..
§Cornwood (Yealm Head No. 3)	W. H. Thompson, Esq., C.E.	5	1 0	1416	..	71·71	..	..
4.—DART. 197 sq. mi.								
D Dartmouth (Ridge Hill)	The late Dr. H. J. Campbell	5	1 0	120	40·3	45·38	201	157
d Dartmouth (Naval College)	The Curator, Science Lab.	8	1 0	220	..	45·42	..	..
D Churston Ferrers (Greenway)	Mrs. C. Williams	5	0 9	..	40·8	45·62	172	146
Brixham	Torbay Paint Co., Ltd.	8	0 10	164	..	35·91	..	..
D Brixham (Combe Bank)	Sir H. Clayton, Bt.	5	6 6	115	36·7	40·10	183	141
D Waddeton Court	Sir A. L. Goodson, Bart.	5	1 0	175	40·5	44·29	169	140
D Stoke Gabriel (Maisonnette)	Edward Stobart, Esq.	5	1 0	100	42·8	51·08	183	158
d Totnes (Dundridge Gardens)	Mr. C. K. Pugsley	5	1 0	250	48·3	54·18	..	..
D Paignton Vicarage	Rev. Preb. H. M. Drake	5	1 0	42	35·4	40·22	178	136
D Paignton (Victoria Park)	Town Council (C. Bellinger)	8	1 0	12	..	38·89	180	134
D Paignton (Claylands)	G. M. Rosling, Esq.	8	1 2	150	35·7	40·80	192	143
D Totnes (Walrond House)	W. J. Toope, Esq.	5	1 2	40	41·8	48·31	176	142
D Totnes (Dartington Hall)	J. B. E. Patterson, Esq.	5	1 0	175	..	45·08	193	147
D Totnes (Staverton)	J. A. Devenish, Esq.	5	0 11	50	..	46·10	172	142
D Broadhempston (Sneydhurst)	H. S. Burbery, Esq.	5	1 6	200	..	43·47	186	147
D Ipplepen Vicarage	Rev. R. D. Cooke	5	1 0	266	36·8	41·79	177	145
D Holne (Church Park Cottage)	L. W. Frost, Esq.	5	1 6	620	59·8	72·98	208	153
D Ashburton (West St.)	W. T. Hannaford, Esq.	5	1 0	260	..	56·88	198	157
D Dartmoor (Fox Tor)	E. Rowlands, Esq., C.E.	8	0 7	1160	..	84·60	219	180
D Dartmoor (Swincombe)	E. Rowlands, Esq., C.E.	8	0 7	1120	..	81·97	216	178

§ Gauge over-exposed on moor.

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SOUTH DEVONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—DART—(*con.*)								
D **Princetown (Huccaby House)**	Lt.-Col. H. H. Joll, D.S.O.	5	1 0	900	54·6	70·18	212	170
D **Princetown (Wydemeet)**	Colin M. E. May, Esq.	5	1 0	900	58·2	73·67	220	184
D PRINCETOWN (H.M. Prison) .(+A)	The Governor	5	1 0	1430	81·9	87·39	221	187
W **Dartmoor (Cowsic Valley)** *new g.*	A. Atkinson, Esq., C.E.	5	1 0	1323	..	81·82	..	..
M **Dartmoor (White Tor)** *new g.*	A. Atkinson, Esq., C.E.	5	1 0	1439	..	79·25	..	..
M **Dartmoor (Devil's Tor)** *new g.*	A. Atkinson, Esq., C.E.	5	1 0	1570	..	80·85	..	..
M **Dartmoor (Cowsic Head)** *new g.*	A. Atkinson, Esq., C.E.	5	1 0	1465	..	79·40	..	..
D **Postbridge (Warren House Inn)**	S. C. Chapman, Esq., C.E.	5	1 0	1400	..	71·06	194	180
5.—TEIGN. 209 sq. mi.								
D **Torquay (Middle Lincombe Rd.)**	Miss L. M. Brown	5	1 0	250	30·9	32·43	180	140
D TORQUAY (Abbey Park)	The Corpn. (C. Bellinger)	5	1 0	27	33·0	33·87	171	135
d **Torquay (Abbey Road)**	Henry Brown, Esq	5	1 0	125	34·3	35·34	(179)	(137)
D **Bickington (Higher Goodstone)**	Com. W. A. A. Bolitho, R.N.	5	1 0	400	..	51·00	182	149
D NEWTON ABBOT (Seale Hayne Coll.)	The Principal	5	1 0	375	34·7	37·30	184	134
D **Teignmouth (Woodlands)**	S. B. Harris, Esq.	8	1 2	98	31·5	31·72	173	131
d **Teignmouth (Fontigary)**	John F. Caley, Esq.	5	1 0	260	30·1	35·38	..	..
D TEIGNMOUTH (Den Gardens)	Medical Officer of Health	8	1 0	20	31·8	32·96	166	128
D **Teignmouth (Hazledown Res.)**	G. F. Rossiter, Esq.	8	1 0	425	32·4	36·50	182	144
D **Teignmouth (Shaldon Res.)**	G. F. Rossiter, Esq.	5	1 0	213	34·9	37·54	174	137
D **Teignmouth (Landscore Res.)**	G. F. Rossiter, Esq.	8	1 0	133	33·2	35·08	179	138
D Kingsteignton (Firleigh Rd.)	M. B. B. Heath, Esq.	6	1 0	130	..	35·13	172	126
D Bovey Tracey (Whiddon)	G. F. Wright, Esq.	5	1 2	150	..	45·91	179	148
D **Dawlish (Luscombe Castle)**	Peter Hoare, Esq.	8	1 2	175	35·9	40·89	203	139
D Bovey Tracey (Hedgebarton)	S. C. Chapman, Esq., C.E.	5	1 6	1137	59·2	61·90	204	162
D Bovey Tracey (Edymead)	Rev. W. V. Vickers	5	1 9	200	..	43·69	173	138
W **Ashcombe (Thorns Reservoir)**	S. F. C. Churchward, Esq.	5	1 0	550	36·4	40·71	..	..
D Hennock (Hazlewood)	R. P. Kitson, Esq.	5	1 0	650	..	44·48	167	142
D Moretonhampstead (Bullaton)	S. C. Chapman, Esq., C.E.	8	1 0	928	42·2	49·43	222	156
D Moretonhampstead (Mardon)	S. C. Chapman, Esq., C.E.	8	1 0	837	40·6	48·19	221	159
D **North Bovey (Manor House)**	Mr. J. T. Laurence	5	1 0	700	49·0	51·25	209	161
M Chagford (Hurston Ridge)	S. C. Chapman, Esq., C.E.	5	1 0	1350	..	65·21	..	..
M **Chagford (Toms Hill)**	S. C. Chapman, Esq., C.E.	5	1 6	1500	..	80·51	..	..
M **Chagford (Whiteridge)**	S. C. Chapman, Esq., C.E.	5	1 6	1650	..	81·49	..	..
M Chagford (Hemstone)	S. C. Chapman, Esq., C.E.	5	1 6	1350	..	79·29	..	..
D **Christow (Kennick) No. 1**	S. C. Chapman, Esq., C.E.	8	1 0	836	41·6	45·38	205	148
D **Christow (Kennick) No. 2**	S. C. Chapman, Esq., C.E.	8	1 0	860	..	46·86	205	149
D **Chagford (Fernworthy)**	S. C. Chapman, Esq., C.E.	5	1 0	1150	..	68·90	228	168
D **Chagford (Metherall)** .....(+A)	S. C. Chapman, Esq. C.E.	8	1 0	1150	..	65·07	228	168
M **Chagford (Thornworthy Down)**	S. C. Chapman, Esq., C.E.	5	1 6	1250	..	71·47	..	..
M Chagford (Crownhall)	S. C. Chapman, Esq., C.E.	5	1 0	1320	..	73·80	..	..
D Christow (Smithacott)	S. C. Chapman, Esq., C.E.	8	1 0	861	..	48·29	204	147
D Moretonhampstead (Hayne)	G. B. Davie, Esq.	5	1 0	600	..	46·09	194	143
D **Moretonhampstead (Stinhall)**	S. C. Chapman, Esq., C.E.	5	1 0	844	48·9	51·17	191	165
M Moretonhampstead (Blackingstone)	S. C. Chapman, Esq., C.E.	8	1 0	1158	42·5	42·65	..	..
D Chrjstow (Laployd)	S. C. Chapman, Esq., C.E.	5	1 6	1041	41·6	51·47	205	147
D **Chagford (Thornworthy)**	Miss W. H. Varwell	5	0 6	1175	59·6	67·58	201	161
D **Chagford (Huish)**	Col. P. Hart Dyke, D.S.O.	5	1 0	595	..	51·98	208	153
6.—EXE. 445 sq. mi.								
Exmouth (Colerstraive)	J. Barber, Esq.*	5	0 0	100	..	(32·62)	..	..
D EXMOUTH (Waterworks Road)	S. Hutton, Esq., C.E.	5	1 0	195	28·6	28·12	160	121
D **Exmouth (Filters, Salterton Rd.)**	S. Hutton, Esq., C.E.	8	8 6	195	31·5	31·02	195	137
D Exmouth (Littleham)	W. Malan, Esq.	5	0 7	155	..	29·06	182	124
D **Exmouth (Filters, Capel Lane)**	S. Hutton, Esq., C.E.	5	8 0	240	30·3	30·32	196	132
D Lympstone (Manor House)	Miss L. Shelden	5	0 11	54	30·8	32·82	186	132

* Per *Devon and Exeter Gazette.*

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SOUTH DEVONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
6.—EXE—(*con.*)								
D Woodbury (Oakhayes)	E. S. Chattock, Esq.	5	1 0	200	..	31·94	166	133
d Topsham (Altamira)	Mrs. Wimbush	5	0 9	120	29·3	29·73	..	..
D Exminster (Trood House)	Lt.-Col. T. L. Ormiston	5	1 11	75	..	33·46	174	131
D Exeter (Hatfield, Longdown)	C. Holman, Esq.	5	0 10	450	33·8	37·15	171	131
d Aylesbeare (Rosamondford)	A. T. Loram, Esq.	5	0 9	220	31·4	36·00	..	..
D Exeter (Devon and Exeter Inst.)	The Librarian	5	13 7	155	30·5	32·70	177	131
Exeter (The Close)	Rev. Canon D. McLaren	5	0 9	100	..	32·67	168	139
D Exeter (Magdalen Rd.)	Major H. W. N. Shewell	5	1 7	110	..	33·04	175	134
D Tedburn St. Mary Rectory	Rev. H. Rusbridger	5	0 10	400	32·7	33·29	185	148
d Rockbeare Manor	Lt.-Col. H. Spencer Follett	5	0 10	180	30·9	31·56	..	122
D Cheriton Bishop (Medland Manor)	Lady Lennard	5	0 7	550	..	32·30	222	147
D Brampford Speke	E. E. Stevens, Esq.	5	1 0	170	..	31·32	164	142
D Crediton (U.D.C.)	The Surveyor	5	1 3	198	..	32·39	178	151
Crediton (Haywards School)	C. Luxton, Esq.	5	0 9	200	..	31·56	..	..
D Silverton (KILLERTON)	Rt. Hon. Sir F. Dyke Acland, Bt., P.C.	5	1 0	159	..	33·41	189	144
D Thorverton (School House)	The Headmaster	5	1 0	194	..	36·13	186	139
D Silverton	G. B. Savery, Esq.	5	1 0	260	..	35·99	209	138
D Crediton (Okefield)	Seymour F. Pope, Esq.	5	1 0	325	32·2	31·09	209	145
D Copplestone (Copplestone House)	Miss M. Pope	5	0 11	315	34·1	34·50	197	153
D Bradninch (Dunmore House)	Miss H. R. Hepburn	5	1 0	300	33·7	35·84	187	139
D CULLOMPTON	Murray T. Foster, Esq.	5	1 0	202	35·3	37·63	203	146
D Cullompton Court	Dr. E. S. Cardell	5	1 0	200	..	36·32	197	138
D Kentisbeare	A. E. Painter, Esq.	5	1 0	304	..	36·20	182	130
D Tiverton (St. Aubyn's Park)	F. C. Fox Strangways, Esq.	5	1 0	394	39·4	40·15	206	152
D Tiverton (Halberton)	Miss M. G. Izat	5	1 0	240	40·1	44·81	218	147
D Tiverton (Blundell's School)	E. G. Peirce, Esq.	5	1 6	270	..	37·95	199	146
d Hemyock Place	N. J. Hitchings, Esq.	5	3 0	850	..	38·81	..	144
D Tiverton (Washfield Rectory)	Rev. A. Ellison	5	1 0	500	..	42·05	203	161
D Bampton (Stuckeridge)	Brig-Gen. J. C. Livingstone-Learmonth, C.M.G.	5	1 3	750	..	40·09	172	151
D Bampton (Oakford)	Miss M. E. Tedder	5	1 0	650	..	46·96	205	168
D Bampton (Castle Grove)	Major B. M. Read	5	1 4	272	..	39·80	169	142
D Morebath Manor	C. H. W. Malet, Esq.	5	1 0	600	..	43·93	208	164
7.—AXE & C. 237 sq. mi.								
d Budleigh Salterton (West Ways)	J. Hartree, Esq.	5	1 0	140	..	28·97	..	133
D Budleigh Salterton (Braywick)	E. Fisher, Esq.	5	1 0	110	..	29·80	171	130
D Budleigh Salterton (Tidwell Ho.)	Mrs. J. H. F. Foster	5	1 0	100	..	28·43	176	131
D Budleigh Salterton (Knowle Ho.)	Mrs. Pepys	5	1 2	230	..	31·35	151	145
Budleigh Salterton (Squabmoor)	S. Hutton, Esq., C.E.	5	1 0	267	31·9	29·70	..	..
East Budleigh (Bicton Common)	S. Hutton, Esq., C.E.	5	1 0	300	32·2	29·37	..	..
D East Budleigh (Bicton Gardens)	The Head Gardener	5	1 0	90	31·4	30·67	160	129
D Salcombe Regis (Steephill)	Burleigh D. Kilburn, Esq.	5	1 0	150	..	30·33	181	129
D SIDMOUTH (U.D.C.)	The Borough Surveyor	5	1 0	25	..	29·18	171	119
D Sidmouth (Loretto)	S. Horsley, Esq.	5	1 6	125	..	30·14	172	128
d Sidmouth (Winslade Cottage)	Miss G. Collins, M.B.E.	5	1 0	145	34·1	32·48	..	..
D SEATON (Seafield)	U.D.C. (Lt.-Col. H. Anderson Neville)	5	1 0	43	..	31·90	164	133
d Seaton (Bunt's Hill)	Dr. R. H. Norman	5	0 10	200	..	32·30	(168)	(130)
D Seaton (Withylake)	T. F. Tracy, Esq.	5	1 0	200	..	32·38	163	131
D Lyme Regis (Pinhay)	Mr. W. F. Shillabeer	5	1 11	465	34·9	32·94	176	130
D Ottery St.Mary (Broad Oak)	Miss Tallant	5	1 2	350	..	40·36	194	147
D Ottery St. Mary (Little Close)	P. M. Miller, Esq.	5	0 9	250	..	38·61	176	134
D Ottery St. Mary (West Hill)	B. Stansbury, Esq.	5	1 6	340	34·2	40·71	207	147
D Ottery St. Mary (Broad Street)	H. D. Badcock, Esq.	5	1 0	170	36·3	39·54	188	160
D Axminster (Lea Combe House)	Major A. C. F. Luttrell	5	1 6	170	38·4	38·75	166	136
D Honiton (Feniton Court)	Col. A. D. Acland, C.B.E.	8	1 6	235	..	38·96	190	145
D Honiton (Beech Grove)	The late Major A. T. Baker.	5	0 10	340	38·5	39·59	179	142

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SOUTH DEVONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
7.—AXE—(*con.*)								
D Membury (Yarty House)	Major W. H. Wilkin	5	1 0	245	..	37·50	177	131
D Honiton (Allington)	Mrs. J. W. Saunders	8	1 6	150	..	37·68	173	143
D Stockland (Post Office)	James Clarke, Esq.	5	3 0	350	40·5	45·51	146	105
NORTH DEVONSHIRE. (Area, 898 sq. mi.)								
1.—NORTH COAST STREAMS. 77 sq. mi.								
D Croyde (Baggy Point)	Miss C. M. Hyde	5	1 0	35	..	26·59	170	134
D WOOLACOMBE (Hotel Grounds)	Miss Chichester	5	1 0	60	..	23·74?	154	127
D Ilfracombe (Reservoir)	A. J. Westaway, Esq.	5	1 0	395	46·2	43·80	211	167
D Combe Martin Rectory	Rev. R. Seymour	5	0 6	120	..	52·62	211	164
D Ilfracombe (Langleigh)	H. B. Holland, Esq.	5	1 0	127	41·8	39·04	186	150
D ILFRACOMBE (Bowling Green)	A. J. Westaway, Esq.	5	1 0	25	..	38·52	189	136
2.—TAW. 442 sq. mi.								
Spreyton (Lynderies)	Lt.-Col. J. Simpson	5	1 0	660	36·9	36·46	..	..
d Witheridge	Rev. J. A. S. Castlehow	5	1 0	600	39·5	37·85	..	..
Chittlehamholt	Rev. H. Carter	5	1 0	430	..	34·98	173	..
d East Anstey Rectory	Rev. J. S. Payne	5	0 9	750	..	43·16	(198)	(170)
D East Anstey (Rhyll Manor)	Mrs. E. L. Hancock	5	1 0	850	..	46·17	191	177
D Filleigh (Castle Hill Gardens)	The Countess Fortescue	5	1 0	317	43·1	42·41	201	169
Tawstock Court (R)	Sir Basil Peto, Bart.	8	1 0	150	39·7	38·18	..	..
D BARNSTAPLE (N. Dev. Athenæum)	The Librarian	8	1 0	25	36·6	34·83	226	159
D Barnstaple (Fort Hill)	Miss M. A. Sterry	5	1 0	197	38·3	37·63	215	162
D High Bray Rectory	Rev. C. F. Ford	5	1 1	750	..	51·25	218	171
D Barnstaple (Westaway)	Major O. L. Trechmann	5	1 0	140	39·1	37·11	203	154
Goodleigh (Willesleigh House)	Lt.-Col. Montague H. Hall	5	1 0	375	40·0	38·33	192	173
D Goodleigh (Gunn Cottage)	Major H. Sandford Claye	5	1 0	720	43·4	41·34	219	174
D Braunton	A. J. Besly, Esq.	5	1 0	145	33·5	34·72	187	153
D ARLINGTON Court	Miss Chichester	5	1 0	613	53·8	52·83	216	184
D Challacombe	A. J. Westaway, Esq.	5	1 0	815	62·2	67·18	231	199
D Georgeham (Spreacombe Manor)	A. Leigh Barker, Esq.	5	0 9	340	38·1	36·16	205	155
D Kentisbury	Noel Irwin, Esq. †	5	1 0	557	..	51·62	226	170
3.—TORRIDGE. 342 sq. mi.								
Dartmoor (Cranmere Pool)	S. R. Harry, Esq., for M.O.	5	1 0	1845	..	78·40	..	..
Dartmoor (Newbridge)	S. R. Harry, Esq., for M.O.	5	1 0	1500	..	70·60	..	..
D Okehampton (Uplands)	E. P. Burd, Esq.	5	1 0	700	51·4	56·64	216	169
D Okehampton (Grammar Sch.)	Wm. Hunter, Esq.	5	1 6	500	..	50·93	184	156
d Monkokehampton	Rev. R. Y. Holmes	5	0 6	245	..	34·60	..	..
D Torrington (Enfield)	G. M. Doe, Esq.	5	1 0	337	39·3	33·93	187	149
D Parkham (Melbury Moor)	A. C. Harding, Esq.	5	1 0	630	50·2	50·32	209	175
D Parkham (Melbury Reservoir)	A. C. Harding, Esq.	5	1 0	517	52·8	52·79	209	180
D Buckland Brewer (The Cottage)	Miss B. G. Rogers	5	0 11	469	45·0	42·22	226	173
D Littleham (Orleigh Court)	W. H. Rogers, Esq.	5	1 0	260	48·0	41·88	215	174
D Landcross (South Close)	C. R. C. Hibbert, Esq.	5	1 0	100	35·6	39·92	199	157
D Bideford (Jennett's Res.)	Borough Surveyor	5	1 0	62	..	35·28	184	152
D Bideford (Gammaton Res.)	Borough Surveyor	5	1 0	350	..	33·91	190	151
D Bideford (Webbery)	Mrs. C. E. Boyd	5	1 0	355	37·7	36·31	193	158
d Westleigh (Council School)	The Headmaster	5	1 0	180	35·6	32·12	(179)	(146)
D Westward Ho ! (Royal Golf Club)	Major A. Newton-King	5	1 6	10	32·3	32·22	180	158
4.—WEST COAST STREAMS. 32 sq. mi.								
D Hartland (Fosfelle)	R. P. Chope, Esq., B.A., J.P.	5	1 0	480	46·0	44·15	205	170
5.—EXE. 5 sq. mi.								

† For Royal Meteorological Society.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

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CORNWALL. (Area, 1,363 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—CAMEL & N.W. COAST STREAMS. 458 sq. mi.								
Crowan (Boswyn Res.)	Camborne Water Co.*	..	..	511	47·6	47·64	207	166
D Lelant	Mrs. Tyringham	5	1 3	50	44·4	42·83	192	152
D Hayle (Gwythian Road)	Caldwell Harpur, Esq.	5	0 10	98	40·1	39·23	199	147
D St. Ives (Halsetown Vicarage)	Rev. T. C. F. Barfett	5	1 0	328	..	44·51	215	153
St. Ives (Bussow Moor)	The Borough Surveyor	5	1 1	397	48·6	46·06	..	..
D St. Ives (Cemetery)	The Borough Surveyor	5	1 1	124	..	45·61	174	141
Camborne	Miss I. Osborne	5	1 9	402	44·1	45·92	160	145
St. Ives (Liscoruah)	Col. J. M. Findlay, D.S.O.*	5	0 9	300	47·3	40·38	202	149
D Redruth (Trewirgie)	A. P. Jenkin, Esq., J.P.	5	1 0	397	45·3	47·25	214	156
M Redruth (Green Lane Nurseries)	F. Sanders, Esq.	5	1 0	270	*41·2*	46·18	..	..
D St. Agnes (Church Town) *new g.*	Dr. W. C. Whitworth	5	1 0	318	..	40·80	202	156
Newquay (Reservoir)	C. C. Vigurs, Esq., B.A., M.D.	5	1 0	210	33·4	33·10	..	..
D Newquay (MountWise) No. 1	The U.D.C. (C. C. Vigurs, B.A., M.D.)	5	1 0	190	33·2	31·56	195	135
D Bodmin (Polgwin)	The late H. D. Foster, Esq.	5	1 0	400	47·7	48·32	195	164
D Bodmin (Castle Hill House)	Mrs. Leslie	5	1 0	484	49·4	46·83	240	182
D St. Mawgan (Trenance)	Trenance Ltd.	5	1 6	250	..	30·81	181	145
D Helland (Tredethy)	Capt. G. Wilson, R.N.	5	0 10	440	42·7	43·90	207	165
D Little Petherick (St. Petroc Minor)	Miss A. T. Skilbeck	5	1 2	150	32·0	30·56	223	145
Wadebridge (Bryn)	Mrs. K. D. Beare	5	1 6	50	38·7	35·53	..	..
D Wadebridge (Trewornan)	Brig.-Gen. L. J. Hext, C.M.G.	5	1 0	30	36·0	34·67	208	157
d Trevone (Pentonwarra)	W. M. Lindley, Esq.	5	1 0	25	..	30·16	(189)	(130)
D St. Kew (Skisdon)	Mrs. Braddon	5	1 0	100	40·3	40·64	211	163
D St. Minver (Trebetherick)	A. T. Roseveare, Esq.	8	1 0	70	32·0	30·07	197	145
w St. Minver (Lundy Bay)	W. Poynter Adams, Esq.	5	1 0	240	..	34·89	..	..
Camelford (Roughtor)	A. W. Patten, Esq.*	..	..	940	..	53·42	..	..
D Camelford (Stannon Clay Wks.)	English China Clays, Ltd.	8	1 6	900	54·8	54·65	244	193
D Bude (School House)	Clerk to the U.D.C.	5	1 0	50	33·4	30·35	184	153
d Bude (Trelana)	G. A. C. Thynne, Esq.	5	2 0	200	32·7	34·40	186	150
D Kilkhampton	J. E. Heasman, Esq.	5	5 0	500	..	42·19	207	167
2.—FOWEY & S.E. COAST STREAMS. 620 sq. mi.								
D The Lizard (C. Guard Stn.)	Station Officer (M.O.)	8	1 0	240	..	32·34	175	138
M Lizard (Tregullas House)	A. P. Jenkin, Esq.*	5	1 0	244	35·2	32·59	..	..
D Ruan Minor	Miss H. F. Shepherd	5	1 0	210	36·0	32·33	189	148
Mullion (Council School)	E. J. Perry, Esq.	5	1 1	208	37·4	35·19	190	134
D Mullion	H. H. Penrose, Esq.	5	0 10	178	35·3	33·42	185	144
D Porthcurno	Eastern Telegraph Co.	5	1 0	150	36·2	32·60	205	145
St. Keverne (Lanarth)	P. D. Williams, Esq.	5	1 3	310	43·7	41·55	202	160
D Bosahan (St. Martin-in-Meneage)	Hon. Mrs. Colborne Vivian	5	1 3	180	..	43·10	174	157
Porthleven	J. J. Emmott, Esq.	5	1 0	100	..	34·37	183	143
D Helston (Tenderah)	J. W. Tyacke, Esq	5	1 7	210	42·0	41·32	193	154
Germoe	S. E. Biddick, Esq.	..	..	220	..	(38·84)	..	..
Sithney (Council Sch.)	R. Trend, Esq.	5	0 10	296	..	43·99	..	..
D Constantine (Pons-a-Verran)	A. Mayne ,Esq.	8	1 0	60	41·2	38·28	202	140
D Penzance (Trewidden)	Mrs. C. Williams	5	1 0	275	39·6	37·95	195	156
d St. Michael's Mount	Lord St. Levan	..	..	50	43·2	33·40	..	..
D Penzance (Morrab Gardens)	The Town Clerk	5	1 0	55	40·9	40·63	199	148
D Penzance (Trengwainton House)	Lt.-Col. E. H. W. Bolitho	8	1 2	400	46·4	45·48	211	163
D Gulval (Experimental Stn.)	Cornwall County Council	5	1 0	20	41·5	40·90	188	145
D Wendron (Ninemaidens)	W. E. Benney, Esq.*	5	0 10	700	..	54·03	208	169
D Falmouth (Observatory) +(A)	The Supt. for Roy. Cornwall Poly. Soc.	5	1 0	167	43·6	40·43	183	141
D Falmouth (Trefusis)	Lt.-Col. The Hon. H. W. F. Trefusis.	5	1 3	200	39·5	35·89	189	142
d Halwin (Council Sch.)	F. P. Jenkin, Esq	5	1 6	540	..	46·33	..	..
D Penryn (Ashfield)	J. G. Stephens, Esq.	5	1 0	95	42·2	42·31	205	149
Penryn (Roskrow)	Mrs. E. Stephen*	..	..	550	49·8	49·68	..	148
D Devoran (Devoran House)	Rev. A. S. Rashleigh	5	1 0	50	..	42·79	203	151
D Gwennap (Trevince)	C. H. Beauchamp, Esq.	10	1 0	240	45·5	48·34	213	166
D St. Day (Council School)	R. R. Blewett, Esq.	5	1 0	390	49·2	45·79	227	151
Tregoney (Trewarthenick)	P. A. Welman, Esq.*	6	0 10	200	..	38·54	..	..
D Truro (Tregolls)	Miss C. L. Rashleigh	5	1 0	65	41·6	40·96	208	149
D Truro W.W. (Lower Tregurrow)	W. J. Lean, Esq.	5	1 0	71	42·2	39·73	183	148

* *Per* Cornwall Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

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CORNWALL—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—FOWEY & S.E.—(*con.*)								
D Mevagissey	C. Metcalfe, Esq.	5	1 0	100	42·3	40·58	189	155
D Tresillian	Chas. Nicholson, Esq.	5	0 10	50	..	39·94	195	152
D Polperro	Mrs. F. H. Perry Coste	5	1 0	100	*39·2*	34·46	244	165
D†Fowey	Town Clerk	5	1 0	51	..	33·41	186	150
D St. Austell (Charlestown Old Vic.)	C. A. Battiscombe, Esq.	5	3 6	204	*42·7*	44·81	193	156
D St. Austell (Trevarna)	W. M. Coode, Esq.	5	1 0	300	45·8	46·63	203	166
D East Looe	W. D. Clague, Esq.	5	1 0	50	..	36·93	178	142
D Downderry (The Watch House)	Mrs. Sneyd	5	1 0	100	..	33·57	172	151
D Looe (Morval)	Capt. A. H. Tremayne, R.N.	5	1 0	150	46·1	46·86	182	155
D Lostwithiel (The Terrace)	R. Pease, Esq.	5	1 0	110	49·2	46·41	200	147
D St. Keyne (Locrenton)	Rear-Admi. R. Wykes-Sneyd	5	0 10	250	..	52·98	217	156
D Menheniot (Coldrenick)	Rev. F. E. Trelawny	5	1 0	301	47·1	48·29	158	112
D Liskeard (Penmilder)	Miss D. P. Foster	5	1 0	250	..	47·71	186	155
Liskeard (Lewarne)	W. R. Rendell, Esq.	8	0 10	420	..	58·16	237	172
D Liskeard (Treventon)	E. R. Foster, Esq.	5	1 0	360	..	47·50	213	171
D Bolventor Vicarage	Rev. S. J. Pethick	5	1 0	845	67·6	64·47	236	193
3.—TAMAR & C. 279 sq. mi.								
D Devonport (Empacombe)	Miss M. C. Algate	5	2 6	20	36·8	39·37	197	153
D Devonport (Cremyll)	S. B. Wilcox, Esq.	5	1 4	25	36·3	34·37	186	145
D Torpoint (Trethill House)	Col. J. D. A. Roberts	5	1 6	200	34·5	35·36	187	132
Torpoint (Wilcove)	G. P. Jenkin, Esq.*	..	..	40	39·1	41·89	..	..
D‡St. Mellion (Ellbridge Exp. Stn.)	The Horticultural Supt.	5	1 0	200	..	44·29	178	151
D St. Mellion (Pentillie Castle)	The Head Gardener	5	1 0	150	..	52·37	207	160
d Callington	D. H. Watkins, Esq.	5	0 9	525	..	44·98	..	..
D Gunnislake (Drakewalls)	J. D. Woolcock, Esq.*	5	1 0	573	..	51·69	211	160
d Stoke Climsland School	T. Oates, Esq.	5	1 0	458	..	54·58	..	..
D Launceston (North Hill)	Miss M. E. Hale	8	1 0	475	..	57·80	219	149
D Launceston (Landue)	Miss S. E. Tregoning	5	0 11	225	42·5	45·06	223	164
D Launceston (Hexworthy)	R. B. Rogers, Esq.	5	1 0	270	42·1	44·04	212	150
D Launceston (Pendruccombe)	Mrs. H. W. Suttie	5	1 0	469	..	44·57	198	161
Egloskerry (Tregeare)	Mrs. Lethbridge*	5	1 6	575	43·1	47·07	..	..
D North Tamerton (Davies)	W. S. Bray, Esq.	5	4 1	390	..	45·87	211	169
4.—INSULAR.—Isles of Scilly. 6 sq. mi.								
D St. Mary's (C. Guard Stn.)	Station Officer (M.O.)	8	1 0	163	31·9	31·93	199	148
D Tresco Abbey	Maj. A. A. Dorrien Smith, D.S.O.	5	1 0	40	33·4	30·46	204	146
SOMERSETSHIRE. (Area, 1630 sq. mi.)								
1.—LOWER AVON. 300 sq. mi.								
D Wanstrow (The Manor Cottage)	P. E. B. Warburton, Esq.	5	1 0	465	37·7	35·75	166	129
D Shepton Mallet (Pondsmead)	R. A. Hobhouse, Esq.	8	1 0	710	44·9	41·41	186	152
D Frome W. W. (Egford)	L. Slaughter, Esq.	8	2 0	270	35·8	33·62	171	136
D Frome (Selwood School)	Miss E. M. Coombs	5	1 7	320	33·9	30·57	167	131
D Mells (Selwood)	Miss E. G. Horner	5	1 0	344	37·2	35·43	185	139
D Binegar (Gurneyslade)	Rev. H. M. Caffrey	5	1 0	588	43·3	42·14	171	135
D Stratton-on-Fosse (Downside Ab.)	Rev. H. M. Caffrey	8	1 0	600	41·5	37·91	192	132
D Orchardleigh Park	Major A. C. Duckworth	8	1 0	320	32·8	31·76	163	129
D Lullington	H. G. Chislett, Esq.	5	1 0	200	..	30·24	167	130
D Chilcompton (The Woodlands)	C. H. M. Thring, Esq.	5	0 10	450	..	36·94	200	139
D Chewton Mendip (The Priory)	The Lord Chewton	5	1 0	550	..	38·95	174	140
D Midsomer Norton (C.E. School)	J. Poyner, Esq.	5	0 8	310	..	38·79	163	142
D Radstock (Frome Hill)	H. Finister, Esq.	8	2 6	330	34·7	30·09	175	127
D Litton (Sherborne Res.)	A. M. Paterson, Esq., C.E.	5	1 0	340	40·0	39·22	172	139
w Harptree Hill	A. M. Paterson, Esq., C.E.	5	1 0	784	..	38·80	..	..
d Tellisford (Crabb Hall)	Dr. W. C. Everley Taylor	5	1 0	182	..	27·77	..	..
D Hinton Blewett Manor	Maurice Church, Esq.	5	1 3	500	39·6	37·03	204	142
D Clutton (Council School)	I. C. Hoyal, Esq.	5	1 0	427	35·5	36·09	217	144
D Pensford (Sutton Court)	Lord Strachie	8	1 0	280	37·7	35·21	208	149
D Midford (Pumping Station)	Combe Down W.W. Co., Ltd.	5	1 0	135	..	27·36	169	122
d Monkton Combe (Crossways)	M. J. Lipscomb, Esq.	5	1 0	210	33·2	29·55	..	120
D Pensford (Hunstrete House)	H. Leyborne Popham, Esq.	5	0 9	400	33·7	29·50	180	135
D Chew Magna	A. M. Paterson, Esq., C.E.	5	1 0	180	36·3	31·45	176	113
D Pensford (Publow School Ho.)	A. Hayes, Esq.	5	1 0	230	33·2	32·49	188	141

† Unorthodox exposure. ‡Turf Wall erected Oct. 1932. * *Per* Cornwall Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1934. Rain-fall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SOMERSETSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—LOWER AVON—(*con.*)								
D BATH (Henrietta Park)	Medical Officer of Health	5	1 0	67	30·3	26·25	170	128
D Bath (Monkton Combe)	W. G. Lock, Esq.	5	1 0	450	30·3	29·72	211	137
D Bath (Combe Lodge)	Major T. H. Clark	5	1 0	520	31·4	29·11	159	122
D Bath (Statutory Hospital)	Bath Corporation	5	1 0	520	32·8	27·73	155	119
D Bath (Claverton Lodge)	G. Lipscomb, Esq.	5	1 3	375	29·1	27·64	159	121
D Bath (Lansdown Place)	Lady Stothert	5	1 2	450	31·5	26·33	182	127
D Bath (Charlcombe)	Bath Corporation W.W.	5	1 6	325	31·4	26·58	153	123
D Bath (Lower Swainswick)	G. R. Marsh, Esq.	5	1 0	145	..	27·93	165	127
D Whitchurch (The Mead)	N. L. Butt, Esq.	5	0 6	300	..	27·96	184	126
D Batheaston Reservoir	Bath Corporation W.W.	5	1 0	248	31·1	26·88	172	129
D Keynsham (Chewton Road)	A. E. Stephens, Esq.	8	1 0	133	29·6	24·90	170	122
d Bath (Brockham End)	H. A. Holland, Esq.	4	1 6	720	..	25·57	(182)	(140)
D Barrow Gurney Reservoir	A. M. Paterson, Esq., C.E.	5	1 0	300	36·2	30·06	175	134
D Lansdown	Bath Corporation W.W.	5	1 0	380	..	28·15	176	132
D LONG ASHTON (Research Station)	The Principal	8	0 8	162	34·1	28·53	188	125
D Walton-in-Gordano	Lt.-Col. Sir Chas. Miles, Bt.	5	0 9	80	..	28·81	175	130
D Failand House	University of Bristol	5	1 0	390	34·6	30·88	189	139
D Portishead (Bristol Rd.)	Portishead Dist. Water Co.	5	1 6	24	34·9	27·50	171	137
D Portishead (St. Mary's Road)	Paul Sinnock, Esq.	5	1 0	67	33·0	27·13	161	127
2.—YEO, AXE & BRUE. 405 sq. mi.								
D Alford Rectory	Rev. A. B. Burney*	5	..	100	30·8	29·22	170	146
D Somerton (Butleigh Court)	R. Neville Grenville, Esq.	8	1 2	95	30·5	26·82	173	132
D Bruton (Great Down Cottage)	F. K. Makins, Esq.	5	1 0	280	..	33·26	184	129
D Ditcheat Rectory	Rev. H. H. Tripp, M.A.	5	1 0	230	31·5	31·00	179	143
d Street (High Level Reservoir)	The Surveyor	5	1 6	185	..	(23·80)	(163)	(121)
D Street (Overleigh House)	J. B. Clark, Esq.	5	0 10	100	28·5	23·81	163	126
D Street (Hindhayes)	Mrs. W. Bancroft Clark	5	1 6	78	28·8	25·12	180	127
D Street (Portway)	J. E. Clark, Esq.	5	1 0	80	..	25·39	174	127
Street (Wraxhill Corner)	A. H. Clothier, Esq.	5	1 10	70	..	25·88	..	..
d Street (Sewage Farm)	The Surveyor	5	1 6	20	..	(26·58)	(154)	(125)
D Street (Millfield) *new g.*	Dr. Hilda Clark	5	1 1	100	28·5	24·56	167	130
d Glastonbury (St. Michael's)	The late Ven. Archd. W. Farrer	5	1 0	220	28·8	(27·50)	(180)	(142)
D Catcott (The Crift)	Rev. H. Buckton	5	1 0	100	..	26·63	169	135
D Edington	Major A. C. F. Luttrell	5	1 1	90	31·2	30·33	186	149
D Chilton Polden (West House)	Mr. E. Chick	5	1 0	100	28·5	26·37	184	135
D Cossington Manor	J. C. Macro Wilson, Esq.	5	1 0	110	..	26·68	170	128
d Meare	E. J. H. Stott, Esq.	5	1 0	35	..	26·38	(161)	(128)
D Shepton Mallet (Pilton)	Miss E. M. Allen	5	1 3	354	34·6	33·03	176	141
D Shepton Mallet (Charlton)	C. E. Burnell, Esq., J.P.	5	1 0	481	38·8	35·93	194	150
D Shepton Mallet (Field House)	Sir F. H. Berryman	5	1 0	500	38·6	35·78	178	148
D Shepton Mallet (Sewage Farm)	The Surveyor, U.D.C.	5	1 0	330	38·7	34·85	184	149
D Doulting Vicarage	Rev. H. S. Darbyshire	5	1 0	693	39·8	36·38	187	143
d Wells (The Palace)	Mrs. Wynne Willson	..	..	150	..	31·15	..	131
D Wells (St. Cuthbert's Lo.)	Miss H. S. Laidlay	5	1 0	135	..	30·35	177	128
D Wells (Mental Hospital)	The Medical Superintendent	5	1 2	300	36·2	31·00	159	136
d Wells (Wookey Hole Paper Mills)	W. S. Hodgkinson & Co., Ltd.	5	2 1	174	35·1	31·30	..	123
D Wookey Hole (Wookey Ho.)	E. T. Wilson, Esq.	5	1 0	200	..	32·03	184	144
D Burnham (Chalbury)	H. A. Smith Spark, Esq.	5	1 0	20	29·1	28·38	191	139
D Burnham	W. H. Chowins, Esq., C.E.	8	0 8	24	28·5	27·29	172	136
D Burnham (Berrow Road)	Miss M. Robinson	5	1 0	10	29·2	27·51	171	123
D Burnham (Brent Knoll)	J. B. Randell, Esq.	5	1 9	25	30·3	26·90	181	127
D Draycott	Miss E. Parrett	5	1 0	21	..	29·91	165	135
D Cheddar (Pumping Station)	A. M. Paterson, Esq., C.E.	5	1 0	50	33·6	30·37	166	135
w Charterhouse	A. M. Paterson, Esq., C.E.	5	1 0	619	43·2	38·68	..	..
w Compton Martin	A. M. Paterson, Esq., C.E.	5	1 0	276	42·4	37·04	..	..
d Shipham (Studleigh End)	Miss E. M. Garaway	5	1 0	540	..	36·59	(181)	(141)
w Ubley (Rookery Farm)	A. M. Paterson, Esq., C.E.	5	1 0	525	44·9	42·87	..	..
D Winscombe (The Down)	J. Grubb, Esq.	5	1 0	295	35·8	34·35	175	139
D Banwell (Eversleigh)	Dr. Kenneth Anderson	5	1 6	50	33·9	28·18	178	133

* *Per* Mid-Wessex Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1934. Rain-fall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
		in.	*ft. in.*	*ft.*	*in.*	*in.*		
SOMERSETSHIRE—(*con.*)								
2.—YEO, AXE and BRUE—(*con.*)								
w Blagdon Hill	A. M. Paterson, Esq., C.E...	5	1 0	550	40·6	38·73	..	..
D Blagdon (Pumping Station)	A. M. Paterson, Esq., C.E...	5	1 0	112	37·0	33·71	167	129
w Blagdon (Coombe Lodge)	A. M. Paterson, Esq., C.E...	5	1 0	388	39·6	36·44	..	..
w Nempnett (West Town)	A. M. Paterson, Esq., C.E...	5	1 0	263	36·3	33·68	..	..
w Burrington (Burrington Links)	A. M. Paterson, Esq., C.E...	5	1 0	335	38·1	33·51	..	..
D Weston-super-Mare (Clarence Pk.)	W. H. Allen, Esq.	5	1 0	29	29·9	30·13	171	129
D Churchill (Langford House)	Sidney Hill, Esq., J.P.	8	0 10	90	..	37·52	179	144
w Butcombe (Cholwell)	A. M. Paterson, Esq., C.E..	5	1 0	370	38·9	32·84	..	..
D Yatton (Chelvey)	A. M. Paterson, Esq., C.E...	5	1 0	60	32·5	27·78	181	128
D Backwell Hill	W. Garnett, Esq.	5	1 0	490	33·2	28·66	164	130
D West Town	Theodore Robinson, Esq...	5	1 0	80	34·6	27·30	179	130
D Clevedon (Gas Works)	J. Harger Pye, Esq.	5	1 2	22	33·5	27·03	165	131
D Clevedon W.W .(Tickenham Rd.)	J. Harger Pye, Esq.	5	1 6	70	31·2	27·24	171	131
D Clevedon (Mt. Heber Cottage)	G. M. S. Farmer, Esq.	5	1 0	205	34·3	25·35	166	125
D Wraxall Court	Mr. G. Hyde	5	0 10	200	..	28·00	187	135
3.—PARRETT. 568 sq. mi.								
D Chard (High Street Council Sch.)	F. Barnard, Esq.	5	1 2	425	39·1	41·36	183	141
D Crewkerne (The Reservoir)	E. H. Munford, Esq.	8	1 0	426	33·7	34·07	176	133
D Crewkerne (Bincombe House)	Mrs. R. H. Symons	5	1 3	293	34·7	33·60	156	130
D Chaffcombe House	Col. L. H. Noblett	5	0 10	400	33·1	38·79	193	144
D Combe St. Nicholas	Rev. G. de Y. Aldridge	5	1 6	580	38·4	44·09	210	153
Coker Court Gardens	Mr. T. H. Gilham	5	1 6	255	33·7	32·31	176	147
D Ilminster	The Surveyor	8	0 9	182	..	33·62	178	135
D Ilminster (Dillington Park) (R)	Mr. W. Goldthorpe	8	3 0	161	..	29·96	168	133
D Yeovil (Reckleford School)	The Headmaster	5	2 0	150	..	31·78	164	132
D Yeovil (Pen Mill Sewage Works)	Dr. C. W. Gee	5	1 0	102	30·6	28·88	200	138
D Pitminster (Blagdon Hill)	G. L. Sidey, Esq.	5	0 10	750	..	41·60	207	148
D Stoke-under-Ham	Miss M. H. Gillett	9	1 0	80	31·2	30·17	164	140
D Angersleigh (Leigh Court)	A. Eastwood, Esq.	8	1 0	360	35·0	34·16	189	130
D Ashbrittle (Kyrle)	Major J. H. Mathias	5	0 9	525	..	38·50	205	144
d Bradford (Stoford Manor)	W. Simms, Esq.	5	1 0	120	..	30·78	(163)	(127)
D Runnington (Runnington Ho)	Mrs. H. F. Lee	5	1 0	200	..	31·69	170	126
D Martock Vicarage	Rev. G. W. Saunders	5	0 9	61	29·6	25·96	165	130
D Rimpton	P. B. Cardwell, Esq.*	5	1 0	147	..	27·41	198	137
D Taunton (The Park)	Dr. John Allen	5	1 0	71	29·5	26·75	173	125
D Taunton (Holy Trinity School)	A. P. Guest, Esq., M.B.E...	5	1 0	65	29·1	26·45	196	129
D Queen Camel (England's Side)	J. A. Brendon, Esq.	5	1 0	100	..	27·00	176	132
D North Curry Vicarage	Rev. A. Gossage Robinson .	5	0 11	90	..	25·45	180	129
D Milverton (Old Halls)	Mrs. Bere	5	1 8	250	..	31·69	182	136
Milverton (Spring Grove)	Mrs. M. K. Coldwell	5	1 0	449	36·7	32·38	..	..
D Wiveliscombe (Culverhead)	Lt.-Col. H. Jefferys Taylor, D.S.O.	5	0 10	430	39·6	37·50	156	133
D Langport (The Grange)	Miss V. M. Page	5	1 0	50	27·9	22·32	193	130
D Langport (Council School)	H. G. Jefferies, Esq.	5	1 0	52	28·1	23·94	161	131
D N. Cheriton (Maperton Ho.)	The Head Gardener	5	1 3	400	..	34·46	155	135
D Somerton (The Grange)	R. W. Pretor-Pinney, Esq..	5	1 0	106	27·8	23·19	151	126
d Wiveliscombe (Council School)	The Headmaster	5	1 1	410	..	36·39	185	142
Wiveliscombe (Bulland Lodge)	Mrs. A. J. Capel	4	0 10	750	..	41·14	..	..
D Bishop's Lydeard (Watts Ho.)	The late Sir Dennis Boles, Bt.	5	1 2	320	..	27·51	163	125
d North Newton	The Headmistress	5	0 9	50	..	24·20	..	..
D Aisholt (Timbercombe)	Mrs. White	5	1 2	700	33·2	32·90	192	140
D Bagborough Rectory	C. Hubert Lance, Esq.	9	1 0	470	34·1	32·72	208	145
D Spaxton (Bush House)	Capt. A. M. Stancomb, R.N.	5	1 0	350	..	30·72	167	126
D Bridgwater (Blake Gardens)	R. A. Watson, Esq.	5	3 1	27	28·5	30·94	161	132
D Bridgwater (Wembdon Road)	H. Corder, Esq.	5	1 0	30	29·9	28·25	166	132
D Over Stowey (Quantock San.)	Medical Superintendent	5	1 0	420	..	31·23	150	129
D Cannington (Ashford)	R. A. Watson, Esq.	5	1 1	102	31·4	28·22	157	126
D Cannington (Farm Inst.)	The Principal	5	1 0	95	..	28·08	187	131
Bridgwater (Fiddington)	J. M. Lee, Esq.*		..	..	..	33·74	177	..

* *Per* Mid-Wessex Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SOMERSETSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—NORTH COAST STREAMS. 158 sq. mi.								
D Elworthy (Willett)	H. C. Venning, Esq.	5	1 0	450	35·1	33·02	161	130
D Croydon Hall	Capt. J. W. Bridges	5	3 0	500	41·6	39·21	174	142
Bicknoller (Ford)	John Tracey, Esq.	5	1 2	150	33·0	33·14	193	137
D Dodington	Miss W. J. Malet	5	1 0	450	..	32·93	182	139
D Bicknoller (Weacombe Ho.)	O. T. Sadler, Esq.	5	1 0	320	34·2	31·03	155	139
Williton (Aller Farm)	R. G. Hosegood, Esq.	5	3 0	175	32·4	34·58	157	133
D Williton (Eastfield)	Miss E. Heathcote	5	0 11	184	..	32·46	177	136
D Williton (The White House)	S. L. Rogers, Esq., J.P.	5	1 0	97	30·6	30·19	169	129
D Kilve Court	Miss A. Fry	5	1 0	150	30·0	32·46	182	137
D Stogursey	Dr. P. Hallam	5	0 8	145	..	29·70	154	127
D Stogursey (Fairfield House)	Lord St. Audries	5	1 0	150	31·1	30·38	172	129
D Dunster	P. R. Day, Esq.	5	1 0	160	33·0	32·61	165	120
D Stolford (Whitewick Farm)	C. Mackenzie, Esq.	5	1 0	10	..	27·47	161	136
D Minehead (Blenheim Gardens)	A. Douglas Barron, Esq.	5	1 0	37	..	30·79	179	138
D Porlock (Lynch Mead Allerford)	J. Dyke Acland, Esq.	5	1 3	113	34·6	29·01	193	133
D Porlock (Bush Steep)	Mrs. W. P. Holmes	5	0 9	130	43·2	33·42	181	138
D West Porlock (Underway)	N. G. Hadden, Esq.	5	1 0	80	44·2	41·11	174	146
D Culbone (Lillycombe)	E. T. MacDermot, Esq.	5	1 0	1210	50·5	50·81	226	171
5.—EXE. 122 sq. mi.								
D Churchstanton (Widcombe)	G. Clinton Baker, Esq.	8	1 1	850	..	41·90	197	141
D Brushford Rectory	Rev. B. J. du Boe	5	1 0	450	44·3	42·54	192	159
D Brushford Nurseries	Mr. G. Ruff	5	1 2	430	44·1	43·43	207	160
D Dulverton C.E. School	C. J. R. Weaver, Esq.	5	0 9	550	..	43·53	202	161
D Hawkridge (Liscombe)	Mr. E. W. Darby	5	1 6	980	57·8	46·19	217	167
D Winsford	Capt. R. S. Le Bas	5	1 0	620	..	50·82	203	161
d Exford (Stockleigh Lodge)	Lt. Col. W. W. Wiggin	5	1 0	980	54·8	57·89	..	..
6.—AXE. 42 sq. mi.								
D Wayford Manor	H. L. P. Baker, Esq.	5	0 10	425	..	40·75	171	150
D Cricket St. Thomas	Mr. C. G. Rose	5	1 0	444	39·3	42·42	168	142
7.—STOUR. 35 sq. mi.								
D Temple Combe Rectory	Rev. Preb. R. W. Windsor	5	1 0	250	34·9	32·74	174	140
D Horsington Marsh	R. Parsons, Esq.*	5	..	250	..	29·51	159	128

DIVISION VI—WEST MIDLAND COUNTIES.

GLOUCESTERSHIRE. (Area, 1,243 sq. mi.)

1.—WYE. 50 sq. mi.								
D Chepstow (Castleford)	Mrs. W. R. Lysaght	5	0 11	146	35·8	33·77	169	112
D St. Briavels (St. Briavels House)	Surg.-Cpt. O. W. Andrews, R.N.	5	1 0	750	43·4	41·33	183	139
d Newland (The Cottage)	E. L. Ferrall, Esq.	5	0 7	450	..	35·69	..	126
D Forest of Dean (Mailscot Lodge)	Forestry Commission	8	1 0	630	35·0	31·26	166	128
D English Bicknor (Bicknor House)	T. F. Harvey, Esq.	5	1 0	490	32·6	29·16	164	113
d Ruardean Hill Lodge	Forestry Commission	8	1 0	932	..	31·54	..	122
2.—SEVERN—Right Bank Tributaries. 176 sq. mi.								
D Lydney (Clanna Cottage)	Brig.-Gen. A. M. Tyler, C.M.G.	8	0 10	359	39·7	34·51	184	130
d Forest of Dean (Whitemead Pk.)	Forestry Commission	8	1 0	325	34·7	33·58	..	..
D Forest of Dean (Blakeney Hill Lo.)	Forestry Commission	8	1 0	500	31·6	27·90	172	131
D Forest of Dean (PARKEND)	Forestry Commission	8	1 0	325	..	34·42	187	128
D Forest of Dean (Worcester Lo.)	Forestry Commission	8	0 11	712	37·4	33·53	169	132
D Coleford (Cannop Colliery)	The Manager	5	10 0	300	..	32·44	183	127
D Westbury-on-Severn (Ninnage L.)	Miss N. E. Grant	5	1 0	120	29·2	25·20	164	125
d Forest of Dean (Edgehills Lodge)	Forestry Commission	8	1 0	915	33·2	35·08	..	130
d Tibberton Court School	The Headmaster	5	1 0	108	..	25·70	(157)	(106)
D Newent (Taynton)	M. Philips Price, Esq.	5	1 0	50	29·0	26·60	149	114
D Oxenhall (Dymock Woods)	Forestry Commission	8	1 0	232	27·6	23·16	154	111
D Redmarley (Haselden)	Miss F. L. Newbury	5	0 5	280	25·3	21·91	186	121
D Bromsberrow Heath Pump. Stn.	W. Osborne Thorp, Esq., C.E.	5	1 0	181	26·2	24·33	148	117
D Tewkesbury (Forthampton Ct.)	Mr. B. Webster	5	1 0	48	26·9	21·11	153	107
D Tewkesbury (Upper Lode)	J. E. Bradley, Esq.	5	1 0	41	25·2	19·83	147	101

* *Per* Mid-Wessex Rainfall Association.

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

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GLOUCESTERSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—SEVERN—Left Bank Tributaries. 372 sq. mi.								
D Chipping Sodbury (Horton Hall)	Colonel P. Burges	5	1 0	380	31·5	26·24	170	135
D Thornbury (Thornbury Park)	Capt. R. A. Bennett	5	1 3	70	32·2	25·12	164	110
D Tortworth Court	The Head Gardener	8	1 0	264	31·5	25·10	141	113
D Tortworth School	E. A. Smith, Esq.	5	1 6	264	31·8	28·04	170	130
D Dursley (The Manor)	Miss H. M. Hutton	5	1 0	274	32·4	27·53	163	119
D Avening House	Lady Eleanor Byng	8	1 3	350	32·3	27·75	162	130
Avening (Gatcombe)	Colonel H. G. Ricardo	6	1 0	550	31·6	30·13	..	..
D Berkeley Castle Gardens	Mr. T. B. Ashbee	5	1 6	60	29·1	25·36	148	119
D Nailsworth (Three Corners)	F. R. Rushton, Esq.	5	0 9	325	34·0	27·63	178	131
D Berkeley (Sharpness Docks)	A. J. Cullis, Esq., C.E.	5	1 3	50	29·5	30·84	175	123
D Minchinhampton (The Shard)	E. H. Denne, Esq.	5	0 8	500	32·0	27·05	170	126
D Minchinhampton (Rectory Cott.)	G. W. Fisher, Esq.	5	1 0	610	33·9	29·64	173	132
D Minchinhampton (Camp Field)	Miss B. M. Legh	5	1 6	640	33·9	29·79	176	130
D Chalford W.W.	Stroud Water Co.	5	1 6	241	..	25·63	149	112
D Frocester Manor	Capt. J. E. H. Graham-Clarke.	5	1 3	80	..	23·44	149	117
D Stroud (Rodborough Common)	Major H. Napier-Rowlatt	5	1 0	600	..	29·52	153	142
D Stroud (Thrupp)	George G. Loane, Esq.	5	1 0	300	..	25·16	163	118
D Stroud (Stanley Park Gdns.)	Sir P. S. Marling, Bt., V.C., C.B.	8	1 0	365	33·2	29·57	156	144
D Stonehouse (Wycliffe College)	W. A. Sibly, Esq.	5	1 0	120	29·0	22·87	149	113
Stroud (Berrimans)	E. Armitage, Esq.	5	1 0	750	34·0	29·65	..	..
D Whitminster (Parklands)	W. Grey Robinson, Esq., J.P.	5	2 6	103	..	23·39	190	119
M Stroud (Lypiatt Park)	Mr. R. Paget	5	1 0	820	..	26·83	..	..
D Miserden Park	The Agent	5	1 2	750	..	31·42	170	132
D Whitminster (The Junction)	A. J. Cullis, Esq., C.E.	5	1 0	32	..	22·30	158	109
D Haresfield Court	Miss Tidswell	5	0 10	100	30·2	27·34	172	122
D Harescombe Grange	Stamford Hutton, Esq.	5	1 0	557	29·3	23·76	166	124
D Cranham (Woodside)	J. H. Edwards, Esq.	5	1 5	650	..	24·54	167	97
D Quedgeley House	Miss M. F. Curtis-Hayward	5	1 3	65	27·9	23·31	157	114
D Witcombe Reservoir	C. J. Scudamore, Esq., C.E.	8	1 0	297	29·2	25·49	163	122
D Brockworth (The Kia)	Mrs. Grace Buckle	5	1 4	220	27·1	23·37	168	114
D Gloucester (The Park)	R. H. Ellis, Esq.	5	1 3	56	26·6	21·04	157	111
d Gloucester (Llanthony Lock)	J. E. Bradley, Esq.	5	1 2	39	25·4	19·93	..	109
D Gloucester (Maisemore Lock)	J. E. Bradley, Esq.	5	1 1	39	25·1	20·90	163	108
D Churchdown (Barrow Hill)	Mrs. J. H. Jones	5	1 0	225	27·9	23·80	173	129
D Dowdeswell Reservoir	G. Gould Marsland, Esq., C.E.	5	1 3	357	30·0	25·41	157	123
D Cheltenham (Hewletts Res.)	G. Gould Marsland, Esq., C.E.	8	1 6	419	27·7	24·34	169	122
D Cheltenham (Sandford Mead)	G. Gould Marsland, Esq., C.E.	8	2 6	210	26·3	22·93	155	122
D CHELTENHAM (Montpellier Gds.)	The Town Clerk	5	1 0	214	26·5	23·41	165	122
d Cheltenham (Suffolk Square)	Rev. Preb. H. T. Williamson	5	1 0	227	..	20·60	156	116
D Prestbury (Delhome)	Miss E. M. Heberden	5	0 9	300	..	23·43	171	129
D Cheltenham (Swindon)	J. C. M. Stanton, Esq.	8	1 2	136	25·6	21·85	166	117
D Bishops Cleeve	Mrs. L. G. Lascelles	5	0 10	150	..	21·61	169	121
D Tewkesbury Pumping Station	G. Gould Marsland, Esq., C.E.	5	1 0	47	23·9	17·34	160	103
4.—SEVERN—Upper Avon. 99 sq. mi.								
D Blockley	Miss E. M. Richardson	5	1 0	550	..	24·89	167	123
D Winchcombe (Sudeley Castle)	Major J. H. D. Brocklehurst	5	1 0	357	29·8	26·37	155	128
D Broadway (Buckland Manor)	Mr. J. Whiteley	5	1 0	300	27·7	22·11	175	117
5.—LOWER AVON & C. 198 sq. mi.								
D Bath (Monkswood Reservoir)	Bath Corporation W.W.	6	1 0	365	..	27·30	197	133
D Bristol (Tyndalls Park)	(+A) O. W. Dunscombe, Esq.	5	1 6	150	33·1	26·66	187	129
Bristol (Kingswood)	H. Pratten, Esq.	5	1 0	260	..	23·72	..	..
D Bristol (Hopewell Hill)	W. Gloucester Water Co.	5	1 0	381	30.5	24·94	157	125
d Bristol (Sneyd Park)	Mrs. A. M. Tanner	5	1 8	300	..	26·37	..	130
D Clifton (Oakfield Road)	A. M. Paterson, Esq.	5	1 0	200	33·0	25·18	164	122
D Clifton (All Saints Rd.)	H. T. Coles, Esq.	5	0 11	200	..	27·69	195	130
Bristol (St. Andrew's Park)	H. Vicars Webb, Esq.	5	1 6	200	32·6	25·60	..	..
D HORFIELD	G. H. Brown, Esq.	5	1 0	206	..	27·12	175	136
D Shirehampton (Kings Weston)	P. Napier Miles, Esq.	8	1 0	220	..	26·04	175	127
Winterbourne (Kendleshire)	J. Marsh, Esq.	5	1 0	170	..	23·22	..	..
D Frampton Cotterell (Park Ho.)	H. H. Harding, Esq.	5	1 0	158	29·8	24·14	172	122
D Badminton Gardens	The Head Gardener	5	1 0	407	..	30·20	159	134
D Almondsbury (Ridgewood)	R. E. Potter, Esq.	5	0 10	200	29·7	24·19	179	126
D Shipton Moyne P.S.	W. Gloucester Water Co.	8	1 0	314	..	27·27	170	126

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
GLOUCESTERSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
6.—THAMES—Right Bank Tributaries. 15 sq. mi.								
7.—THAMES—Windrush & c. 333 sq. mi.								
D Somerford Keynes (Manor Ho.)	F. Fawcett, Esq.	5	0 9	340	27·9	23·54	163	118
D Fairford (Dunfield, Kempsford)	A. T. Iles, Esq.	5	1 0	260	25·6	22·32	144	110
D Fairford Vicarage	Rev. Canon R. C. S. Jones	5	1 0	280	26·7	23·11	155	122
D Lechlade (St. John's Lock)	Thames Conservancy	5	1 7	237	24·3	20·30	156	112
D Lechlade (Claydon House)	T. T. S. Metcalfe. Esq.	5	1 0	250	25·9	22·06	156	115
D CIRENCESTER (R. Agric. Coll.)	The Principal	5	1 0	443	..	27·53	170	122
D Cirencester (Gwynfa)	Nigel Woods, Esq.	5	1 0	354	30·8	27·93	172	127
D Daglingworth Manor	J. Herbert Scrutton, Esq.	8	0 10	450	30·8	32·01	185	129
D Cirencester (Barnsley Pk.)	W. H. Wykeham-Musgrave, Esq.	5	0 9	495	31·3	28·61	195	129
D Great Barrington	H. J. Barrett, Esq.	5	1 6	417	28·8	26·03	166	128
D Northleach (Leygore Manor)	Arthur E. Moss, Esq.	5	1 0	580	29·4	25·59	182	124
D Bourton-on-Water (Eastfield)	E. W. Kendall, Esq.	5	1 6	434	30·1	26·65	165	126
D Bourton-on-Water (Chardwar)	Miss A. B. Moore	5	1 0	430	30·3	26·85	167	126
d Bourton-on-Water (Rectory)	Canon W. E. White	5	0 10	433	29·6	26·65	..	118
D Stow-on-the-Wold (Icomb Place)	Capt. G. H. Simpson Hayward	8	1 3	500	29·3	26·12	161	124
D Winchcombe (Temple Guiting Ho.)	Major C. Stacey	5	1 3	700	31·6	27·26	197	132
HEREFORDSHIRE. (Area, 840 sq. mi.).								
1.—WYE. 685 sq. mi.								
D Goodrich Court Gardens	Mrs. G. R. Trafford	5	1 8	200	29·7	28·16	173	134
Walford (Hill Court Gardens)	Mr. D. Hawker	5	1 1	161	28·4	24·04	158	122
D ROSS-ON-WYE (+A)	F. J. Parsons, Mus. Bac. (M.O.)	5	1 0	223	27·4	22·40	159	105
D Ross (Birchlea)	Miss M. L. Southall	5	1 0	210	28·2	24·27	177	118
D Bridstow (Ashe Leigh)	Major W. Stanley R. Cox	5	1 0	230	27·4	22·44	171	119
D Kentchurch Rectory	Rev. R. P. Dansey	5	1 0	220	34·6	31·61	177	124
D Ross (The Chantry)	M. F. Maclean, Esq.	5	1 0	475	..	23·11	169	122
D Perrystone Court	Lt.-Gen. G. S. Clive, D.S.O.	5	1 3	450	25·5	20·86	159	109
D Vowchurch (Ladywell House)	A. S. Wood, Esq.	5	1 0	400	34·9	29·51	184	122
D HEREFORD (BELMONT ABBEY)	The Abbot	8	1 0	292	27·5	26·22	153	115
D Hereford (Breinton Court)	Mrs. R. E. H. Baily	5	1 0	238	25·9	19·63	157	100
D Tarrington (Aldersend)	J. H. Whiting, Esq.	5	1 2	360	..	23·93	174	129
D Dorstone (Oaklands)	Robert Gray, Esq.	5	1 0	486	..	30·20	193	130
D Hereford (Holmer Hall)	Miss M. S. Hopton	5	1 7	244	25·1	21·80	170	117
D Tyberton Court	Major C. B. L. Warner	5	0 10	276	..	24·97	164	115
D Credenhill (Stretton Sugwas)	Capt. S. H. Armitage	5	1 0	226	25·8	22·82	204	131
D Credenhill	F. E. Whiting, Esq.	5	1 5	275	27·5	22·73	139	126
d Clifford School	The Headmaster	5	1 7	490	..	27·02	(180)	(123)
D Burghill	F. Boddington, Esq.	5	1 0	310	26·3	20·84	150	111
D Ocle Pychard (Ocle Court)	G. Cresswell, Esq.	8	1 0	298	27·8	23·90	184	118
D Sarnesfield Court	Rev. W. Marshall	5	1 0	378	..	24·84	154	110
D Weobley (The Gables)	H. B. Hall, Esq.	5	0 8	336	..	27·34	170	130
D Weobley School	A. J. Dean, Esq.	5	1 0	320	29·5	25·41	185	123
D Pembridge (Moor Court)	C. A. Benn, Esq.	5	1 6	400	..	24·60	152	120
D Pembridge (Burton Court)	Mrs. P. Clowes	5	1 6	400	28·4	26·33	185	127
d Bromyard (Birchyfields)	J. E. Knott, Esq., D.S.O.	5	1 3	545	..	24·36	(164)	(115)
D BROMYARD (Dumbleton Cot.)	Miss M. A. Philpott	5	1 0	393	29·0	24·31	165	119
D Kington (Lynhales)	Mrs. R. F. Hibbert	5	1 0	620	32·8	26·60	187	125
d Kington (Hill Court)	J. E. Barendt, Esq.	5	0 8	595	..	30·62	184	136
M Kington (Sunset)	H. Langston, Esq.	5	1 6	495	32·0	26·28	..	..
Kington (Golf Club)	C. A. Benn, Esq.	5	1 0	1284	..	28·82	169	148
D Humber Rectory	Rev. B. G. Way	5	1 6	450	30·9	23·49	150	122
D Leominster (Hennor)	Capt. L. R. Hibbert	5	1 1	417	..	23·72	180	120
D Leominster (Fairholme)	The late E. B. Reynolds, Esq.	5	0 9	285	28·5	25·01	159	129
D Kimbolton (Grantsfield)	J. M. Hutchinson, Esq.	5	1 0	424	28·4	26·05	185	126
D Byton Rectory	Rev. P. D. Irwin	5	1 0	500	..	28·66	192	128
D Presteigne (Middlemoor)	A. M. Wilson, Esq.	8	1 0	480	..	28·83	182	131

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

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	HEREFORDSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—SEVERN.—Right Bank Tributaries. 155 sq. mi.								
d	Ledbury (Donnington Hall)	Col. C. Spence-Colby, C.M.G.	5	1 0	240	..	22·33	..	..
D	Much Marcle (The Mount)	Miss A. M. Charles	5	1 0	240	25·8	21·99	178	128
d	Much Marcle (Hall Court)	Mrs. J. J. S. Powell	5	1 0	200	..	22·25	..	116
d	Little Marcle (School House)	J. G. Waggett, Esq.	5	1 0	166	..	21·20	(183)	(110)
	Ledbury (The Twerne)	L. J. C. Riley, Esq.	5	1 0	400	..	24·99	202	135
d	Colwall (The Downs)	F. M. Day, Esq.	5	1 0	500	..	24·82	..	118
	Cradley (Mill Bank)	Lt.-Col. E. H. Thurlow	5	1 0	320	28·4	23·60	..	110
D	Brampton Bryan School	The Headmistress	5	1 4	440	..	28·66	177	129
D	Leintwardine	E Charnock, Esq.	5	1 6	450	31·9	30·02	221	144
	SHROPSHIRE. (Area, 1343 sq. mi.).								
	1.—MERSEY.—Weaver. 27 sq. mi.								
	2.—DEE. 30 sq. mi.								
D	Ellesmere (Seven Sisters)	C. Adam, Esq.	5	1 0	300	..	21·84	197	125
D	Whitchurch (Fenns Bank)	M. W. Sowden, Esq., C.E.	8	1 0	271	27·1	22·88	182	138
d	Overton (Sodylt Hall)	W. H. Horsfall, Esq.	5	1 0	266	29·7	24·53	..	134
	3.—SEVERN.—Right Bank Tributaries. 722 sq. mi.								
D	Bucknell Vicarage	Rev. W. A. Woodhouse	5	1 0	480	..	29·84	175	139
	Knighton (Lurkenhope Cottage)	Miss M. A. Davies, for M.O.	5	1 0	650	..	29·99	..	..
d	Ludlow (Hill Crest)	C. B. Marston, Esq.	5	1 3	350	..	23·49	..	..
d	Bromfield (Oakly Park)	The Head Gardener	5	1 3	300	..	23·80	..	..
D	Bromfield (Warwick House)	F. Brayshaw, Esq.	5	1 0	320	30·3	26·73	202	134
D	Bitterley Grammar Sch.	The Headmaster	5	1 0	509	28·1	31·84	218	155
D	Stanton Lacy Vicarage	Miss I. Armitage	5	1 0	304	28·1	26·13	180	127
d	Culmington Manor	T. W. Shaw, Esq.	5	1 4	575	29·6	25·73	..	118
d	Burwarton Hall	Rt. Hon. Viscount Boyne	5	0 9	894	33·6	29·54	..	148
D	Lydbury North	Erskine Edmonds, Esq.	5	1 0	500	..	29·56	201	149
D	Lydbury North (Totterton)	Major W. H. B. Whitaker	5	1 3	700	30·8	29·20	197	142
D	Bishops Castle (The Vicarage)	Rev. Canon H. J. Smith	5	1 7	596	32·8	27·70	190	134
D	Church Stretton (Sewage Works)	E. J. Marsh, Esq.	5	1 0	582	33·7	33·94	216	154
D	Church Stretton (St. Margaret's)	Rev. J. H. Kidson	5	0 11	672	..	34·37	207	158
D	Bridgnorth (Cantreyn)	W. Bayliss, Esq.	5	1 0	290	26·7	23·40	177	141
D	Chirbury (Marrington Hall)	Lt.-Col. S. D. Price-Davies	5	1 0	490	29·5	24·35	182	129
D	Church Preen (Preen Cottage)	Miss Edith Hopkins	5	1 0	760	29·1	25·27	177	134
D	Church Stretton (Woolstaston)	Mrs. Mathews	5	1 3	745	31·9	32·65	204	152
d	Broseley (Boys' School)	The Headmaster	5	0 8	485	..	24·47	..	..
D	Dorrington School	J. A. Narraway, Esq.	5	1 2	250	..	25·53	224	150
D	Shrewsbury (Beckbury House)	G. H. Horsfall, Esq.	5	0 9	220	22·1	24·07	187	146
D	Shrewsbury (Radbrook Hall)	Maj. D. D. Macpherson, J.P.	5	0 8	235	24·3	22·26	190	134
D	Shrewsbury (Longden Road)	Miss M. Deedes	5	1 6	250	..	21·52	183	135
D	SHREWSBURY (Monkmoor)	Medical Officer of Health	8	1 0	184	..	21·60	193	134
	4.—SEVERN.—Left Bank Tributaries. 564 sq. mi.								
	Bridgnorth (Coton Hall)	Capt. W. Colville	5	1 6	460	27·8	23·41	180	140
D	Ackleton (The Folley)	H. J. Bath, Esq.	5	1 0	230	..	23·04	221	139
D	Ackleton House	F. J. Neale, Esq.	8	1 3	270	..	21·63	194	133
D	Shifnal (Hatton Grange)	Mr. G. Risebrow	5	1 6	262	26·1	24·56	216	144
D	Madeley (C. E. Schools)	The Headmaster	8	1 0	373	..	27·03	207	154
D	Shifnal (Cosford W. W.)	B. L. McMillan, Esq., C.E.	5	0 11	222	..	21·99	184	128
D	Shifnal (National Schools)	The Headmaster	5	1 5	283	28·2	27·20	181	139
d	Wellington W. W. (Wrekin Res.)	W. Walker, Esq.	8	2 6	478	25·7	24·19	..	124
D	Shrewsbury (Copthorne)	W. H. Purslow, Esq.	8	1 0	252	..	20·84	193	127
D	Shrewsbury (Coton Hill)	Dr. M. Gepp	5	1 1	190	22·1	19·81	195	128
	Shrewsbury (Fitz Rectory)	Rev. W. Brewster	5	1 2	238	26·2	21·24	181	..
D	Newport (Aston Hall)	Col. R. Leeke	5	0 11	280	27·7	23·75	189	136
	Pentreheylin Hall	H. P. Hall, Esq.	8	1 2	200	..	24·81	..	..
D	NEWPORT (Harper Adams Ag. Coll.)	The Principal	5	1 0	211	24·8	22·14	186	125
D	Newport (Chetwynd Park)	Mrs. Burton Borough	5	1 0	240	28·3	25·35	206	145
D	Grinshill (Sansaw Hall Gardens)	Mrs. Brian Bibby	5	1 3	300	25·7	28·01	223	155
d	Myddle (Marton Hall)	Capt. A. A. Sidney Villar	5	0 9	280	27·4	23·33	..	141
D	Cheswardine (Knighton Res.)	Canal Engineer, L.M.& S.R.	8	1 0	351	30·0	26·56	201	149

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	SHROPSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—SEVERN—Left Bank Tributaries—(*con.*).								
D	Wem (Senior Schools)	The Headmaster	5	0 8	260	..	24·76	160	136
D	Cheswardine Hall	Col.R.C.Donaldson-Hudson..	5	1 6	530	28·6	24·48	202	139
D	Oswestry (Mount Res.)	G. W. Lacey, Esq., C.E.	5	1 0	698	34·5	29·88	202	156
D	Oswestry (Council School)	E. Compton, Esq.	5	1 0	450	32·4	28·25	194	145
D	Norton-in-Hales School	Chas. Chadwick, Esq.	5	1 3	350	30·5	27·07	207	149
	STAFFORDSHIRE. (Area, 1,171 sq. mi.)								
	1.—MERSEY—Weaver. 50 sq. mi.								
D	Biddulph Grange	The Secretary	5	1 5	572	36·0	31·13	212	155
	2.—SEVERN—Left Bank Tributaries. 160 sq. mi.								
D	Kinver (Prestwood)	F. J. Dixon, Esq., C.E.	5	1 0	179	..	22·51	187	122
D	Kingswinford (Ashwood P.S.)	F. J. Dixon, Esq., C.E.	5	1 0	207	24·9	22·79	178	121
D	Dudley (Shavers End) No. 1	F. J. Dixon, Esq., C.E.	5	1 0	745	..	24·70	188	139
D	Dudley (Shavers End) No. 3	F. J. Dixon, Esq., C.E.	5	1 0	745	..	23·18	184	127
d	Wolverhptn. (Dimmingsdale W.W.)	B. L. McMillan, Esq., C.E.	5	0 9	323	..	22·52	173	124
	Wolverhampton (Copthorne Rd.).	K. C. Berrington, Esq.	6	0 9	505	..	23·96	..	..
D	Wolverhampton (West Park)	Dr. R. H. H. Jolly	5	1 0	480	27·1	23·66	176	136
D	Tettenhall (The Hollies)	R. C. Sikes, Esq., C.E.	5	1 0	355	26·7	24·11	202	134
D	Tettenhall Waterworks	B. L. McMillan, Esq.	5	0 10	468	..	23·84	193	134
D	Shifnal (Weston Park)	Earl of Bradford	5	1 6	400	27·3	24·70	200	134
D	Norbury Junction	Canal Engineer, L.M. & S.R..	5	1 0	331	28·0	23·97	186	139
D	Market Drayton (Old Springs) *old g.*	F. E. Harding, Esq.	5	1 4	422	28·9	23·28	204	132
D	Maer Hall Gardens	Miss Harrison, M.B.E.	8	1 6	390	32·5	29·00	193	139
	3.—TRENT—Right Bank Tributaries. 518 sq. mi.								
D	West Bromwich (+A)	D. Ellison, Esq., C.E.	8	1 7	543	26·2	22·92	170	122
D	Wednesbury (Ocker Hill)	Birmingham Canal Navgtn.	5	1 0	476	..	23·92	179	129
D	Walsall (Bescot Sewage Farm)	J. Taylor, Esq., C.E.	5	0 11	376	26·9	24·54	200	131
D	Walsall (Wednesbury Sew. Wks.)	G. Wicks, Esq.	5	1 0	378	27·9	23·51	176	123
D	Walsall (Pleck)	J. C. W. Day, Esq.	5	1 0	400	..	23·29	176	123
D	Walsall (Gorway)	J. Cleland, Esq.	5	1 0	440	..	24·26	162	130
D	Walsall (Streetly)	J. O. Cleland, Esq.	5	1 0	500	..	24·61	162	137
D	Darlaston (Sewage Works)	S. E. Hammonds, Esq.	8	1 6	393	..	22·35	181	130
D	Bilston (The Lunt Outfall)	A. F. B. Sidwick, Esq., C.E..	8	1 0	419	27·3	22·47	186	131
D	Aldridge (Bourne Vale)	F. J. Dixon, Esq., C.E.	5	1 0	419	25·1	22·66	165	116
D	Wednesfield (Co. School)	The Headmaster	5	1 6	480	..	22·47	179	125
D	Shenstone (Little Hay)	F. J. Dixon, Esq., C.E.	5	1 0	298	..	22·27	170	121
D	Bloxwich (Sneyd Res.)	Birmingham Canal Navgtn.	5	1 0	507	..	22·07	188	126
D	Chasetown	Cannock Chase Colliery Ltd.	5	1 0	508	..	21·97	178	121
D	Brewood (Slade Heath P.S.)	F. J. Dixon, Esq., C.E.	5	1 0	340	24·9	21·54	176	130
D	Hammerwich (Cannock Chase Res.)	Birmingham Canal Navgtn.	5	1 0	475	..	22·40	180	124
d	Cannock (Longford Lane Sew. Fm.)	The Engineer and Surveyor	5	2 3	413	..	21·00	164	123
D	Cannock (Heath Hayes)	Cannock U.D.C.	5	1 0	530	..	23·02	145	128
D	Brewood (Belvide Reservoir)	Canal Engineer, L.M.&S.R..	5	1 0	367	..	25·66	217	150
d	Bishopswood	The late Rev. A. E. Brown	5	1 2	420	..	(22·62)	(194)	(133)
d	Lichfield (Kingsbarrow)	Miss H. I. Rowland	5	1 0	269	27·5	(21·44)	..	..
D	Hednesford (Scout House) *new g.*	F. J. Dixon, Esq., C.E.	5	1 0	702	..	25·33	193	132
D	Rugeley (Longdon Lodge)	F. J. Dixon, Esq., C.E.	5	1 0	413	26·1	20·92	170	121
D	Lichfield (Hanch Reservoir)	F. J. Dixon, Esq., C.E.	5	1 0	259	..	21·09	178	122
D	Alrewas (C.E. School)	The Headmaster	5	0 4	150	..	20·71	172	151
D	Brereton	The Headmaster	5	1 3	300	..	22·81	181	123
D	Rugeley (Slitting Mill)	F. J. Dixon, Esq., C.E.	5	1 0	299	..	23·50	189	128
D	Rugeley (Brindley Bank)	F. J. Dixon, Esq., C.E.	5	1 0	254	26·3	20·59	172	118
D	Rugeley (Nethermoor)	G. H. Grummitt, Esq.	5	1 0	300	29·2	22·99	170	127
D	Milford Waterworks	W. Plant, Esq., C.E.	5	1 0	246	27·5	23·38	187	126
d	Shugborough	C. G. Baker, Esq.	5	1 0	260	..	25·59	..	..
D	Stafford (Victoria Pleasure Gnd.)	W. Plant, Esq., C.E.	5	1 6	249	27·2	26·22	192	135
D	Eccleshall (Johnson Hall)	Major W. Moat	5	1 2	400	27·5	23·95	190	130
D	Yarlet Hall	K. E. Tarling, Esq.	5	0 9	405	..	25·94	186	138
D	Eccleshall (Sugnall Hall)	C. E. Lowe, Esq.	5	1 0	430	..	26·06	196	148
d	Stone (Meece House)	The Head Gardener	5	1 2	750	28·3	26·67	..	..
D	Stone (Meaford Hall)	Lt.-Col. W. S. W. Parker Jervis, D.S.O..	5	0 10	325	29·9	29·48	213	160
D	Standon (Hatton W.W.)	R. C. Frain, Esq., C.E.	5	1 0	355	29·0	27·98	204	152
D	Whitmore Pumping Station	L. M. & S. Rly.	5	1 0	385	..	24·13	169	138

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	STAFFORDSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—TRENT—Left Bank Tributaries. 193 sq. mi.								
D	Burton Reservoir	F. J. Dixon, Esq., C.E.	5	1 0	309	25·1	21·40	164	117
D	Burton (Shobnall)	Messrs. Bass & Co., Ltd.	5	1 0	157	24·6	21·15	193	127
D	Burton (Borough Hospital)	Dr. J. M. Cowie	5	1 0	220	..	21·58	181	126
d	Stone (Alleyne's Grammar Sch.)	H. Malcolm Fraser, Esq.	5	1 0	415	29·4	(24·92)	(174)	(142)
D	Stone (Idlerocks)	Mrs. Wedgwood	5	1 0	740	32·7	24·10	168	139
D	Longton (The Meir)	R. C. Frain, Esq., C.E.	5	1 0	617	30·2	27·87	191	149
D	Hanley Sewage Works	W. H. Makepeace, Esq.,	5	1 0	386	..	23·78	197	143
	5.—TRENT—Dove. 250 sq. mi.								
D	Rocester (Dove Leys)	Sir Percival Heywood, Bt.	5	1 6	350	33·5	26·52	188	143
D	Oakamoor (Lightoaks)	M. A. Bolton, Esq.	5	1 6	650	..	28·16	199	146
D	MAYFIELD (+A).	Graham C. Lawson, Esq.	8	1 0	374	32·3	27·02	199	136
D	Ilam School	The Headmaster	5	0 8	450	..	33·71	205	157
D	Cheddleton (County Mental Hosp.)	Mrs. Menzies	5	1 6	550	..	29·82	194	154
D	Alstonfield (The Manor)	B. R. S. Pemberton, Esq.	5	1 0	925	39·1	34·18	215	171
D	Leek (Wall Grange P. Stn.)	R. C. Frain, Esq., C.E.	5	1 0	456	34·7	27·68	194	151
D	Leek (Hillesdon)	A. Y. Worthington, Esq.	5	1 0	680	37·2	31·02	207	165
D	Leek (Haregate Hall)	Mr. R. Sutton	5	0 9	680	36·9	32·65	206	166
M	Leek (Swains Moor)	W. E. Beacham, Esq., C.E.	5	1 1	993	..	37·21	..	..
M	Leek (Withens, Upper Hulme)	W. E. Beacham, Esq., C.E.	5	1 1	1084	..	(32·77)	..	..
	WORCESTERSHIRE. (Area, 751 sq. mi.)								
	1.—SEVERN—Right Bank Tributaries. 231 sq. mi.								
D	Upton-on-Severn (The Eades)	Roger D. Tennant, Esq.	5	0 9	100	26·9	22·37	217	121
D	Malvern (British Camp Res.)	W. Osborne Thorp, Esq., C.E.	5	1 0	677	28·5	24·46	149	107
D	Malvern (Barnard's Green)	W. Osborne Thorp, Esq., C.E.	5	1 0	130	..	25·11	160	108
D	MALVERN (Free Library)	W. Osborne Thorpe, Esq., C.E.	5	1 0	380	27·6	25·23	160	106
	Malvern (Alexandra Rd.)	C. Harinton Cotton, Esq.	8	1 2	360	..	24·85	..	..
D	Malvern (St. James' Road)	Rev. F. H. Fowler	5	1 3	300	..	24·93	153	119
D	Malvern (Clarendon School)	Miss E. M. Ingram, B.Sc.	5	1 0	500	28·3	24·18	136	106
D	West Malvern	W. Osborne Thorp, Esq., C.E.	5	1 0	832	28·9	23·45	156	120
D	Knightwick Sanatorium	Dr. H. Gordon-Smith	5	1 0	300	25·9	22·46	161	120
D	Worcester (Diglis Lock)	J. E. Bradley, Esq.	5	1 0	49	24·7	19·40	160	105
D	Martley Rectory	Rev. J. F. Hastings	5	1 0	220	26·7	22·14	168	117
D	Shelsley Beauchamp	W. Lionel Moore, Esq.	5	0 10	132	..	20·87	148	111
D	Ombersley (Holt Lock)	J. E. Bradley, Esq.	5	1 1	55	25·3	19·15	141	106
D	Stanford Rectory	Rev. J. B. Hewitt	5	1 1	360	28·4	23·84	154	117
D	Stockton-on-Teme (Eardiston)	Miss M. Wallace	5	1 0	200	26·7	23·30	168	120
D	Stourport (Astley Town)	J. Armytage Batley, Esq.	5	0 11	175	25·5	21·90	178	123
D	Stourport (Dunley Hall)	Sir Sidney Lea, Bt.	5	1 0	240	..	21·32	181	121
D	Bewdley (Winterdyne)	Miss K. M. Sturt	5	1 0	175	25·9	23·31	194	122
	2.—SEVERN—Left Bank Tributaries. 194 sq. mi.								
D	Earl's Croome (Levant Lodge)	F. W. Burnett, Esq.	5	2 0	110	26·3	21·42	175	119
D	Kempsey (Napleton Ho.)	Major H. Berkeley Hill	5	1 3	100	26·9	19·10	151	100
D	Kempsey Vicarage	Rev. E. B. R. de Jersey	5	0 9	50	..	20·33	164	106
D	Worcester (Waterworks)	W. Ransom, Esq., C.E.	5	1 0	52	23·2	19·09	180	113
D	WORCESTER (PERDISWELL)	The Agricultural Organiser	5	1 0	94	..	18·84	158	106
d	Worcester (Bevere Lock)	J. E. Bradley, Esq.	5	1 1	52	24·5	19·80	..	104
D	Droitwich (Sewage Works) †	Borough Surveyor	5	1 0	106	25·4	18·44	161	112
D	Bromsgrove (Tardebigge Res.) *new g*	A. J. Cullis, Esq., C.E.	5	1 0	455	27·5	24·24	194	133
D	Bromsgrove (Burcot P. S.)	R. S. Broadley, Esq.	5	1 0	432	..	23·16	172	123
D	Barnt Green (Upwood)	Miss M. Gibbins	5	1 0	650	..	25·57	192	130
D	Stourport (Lincombe Lock)	J. E. Bradley, Esq.	5	1 0	62	25·6	20·50	179	114
D	Bromsgrove (Washing Stocks P. S.)	R. S. Broadley, Esq.	5	1 0	366	..	22·02	170	126
D	Bewdley (C. E. School)	J. Bates, Esq.	8	1 0	70	26·4	22·70	164	124

† Gauge moved 200 yards, February, 1934, to Sewage Works.

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge Height of Rim above Ground.	Rain-gauge Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
WORCESTERSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—SEVERN—Left Bank Tributaries—(*con.*).								
D Kidderminster (Pumping Stn.)	Sanitary Inspector	5	1 0	103	..	21·38	197	127
D Kidderminster (Park Hall)	K. H. Wilson, Esq.	5	1 0	200	25·7	23·85	187	134
D Bewdley (Elan Aqueduct)	J. W. Wilkinson, Esq., C.E.	5	1 0	91	26·7	23·82	185	136
D Clent Hall	Miss H. M. Wilson	5	1 0	580	..	24·44	181	133
D Wolverley (Hill Ho.)	J. Christopher Wilson, Esq.	5	0 9	250	..	23·03	181	131
D Halesowen (Romsley)	F. J. Dixon, Esq., C.E.	5	1 0	614	30·6	27·27	198	139
D West Hagley (Glenthorpe)	W. Nock, Esq.	5	1 0	400	28·1	24·76	188	135
D Pedmore (The Dene)	T. Grazebrook, Esq.	5	0 9	340	26·5	23·58	194	134
D Stourbridge (Pumping Station)	G. P. Deeley, Esq.	8	1 0	212	27·1	24·89	177	132
D Netherton (Lodge Farm Res.)	Birmingham Canal Navgtn.	5	1 0	445	..	22·72	179	122
D Dudley (Priory Hall)	F. H. Gibbons, Esq., C.E.	8	1 0	584	..	22·88	194	135
D Dudley (Blue Coat Sen. Sch.)	S. Wright, Esq.	5	1 3	660	..	22·01	177	127
Dudley (Trindle House) *new g*	S. Staffs. Mines Drain. Comrs.	5	1 0	575	..	25·17	..	..
3.—SEVERN—Upper Avon. 260 sq. mi.								
D Bredon (The Croft)	Jasper Lambert, Esq.	5	1 1	120	24·5	21·42	182	115
D Birlingham Rectory	Rev. C. Price	5	1 0	70	..	18·17	153	97
D Defford (Upper St.)	A. W. Butler, Esq.	5	5 6	107	24·0	18·53	160	102
D Evesham (Bengeworth)	Messrs. Ross Bros., Ltd.	5	1 0	128	22·9	19·00	166	110
D Evesham (Sewage Works)	J. Abbott, Esq., C.E.	5	1 9	85	22·6	18·56	151	109
Evesham (High Street)	N. Field Esq.	5	1 1	100	..	18·76	..	..
d Evesham (Port St.)	Messrs. Craven & Co.	5	1 6	60	..	18·03	..	106
D Pershore (Three Springs)	C. A. Mumford, Esq.	5	3 0	50	..	19·35	153	110
D Pershore (Southern House)	Miss G. E. Lawson	5	2 3	70	22·2	19·12	161	105
d Evesham (Sheriff's Lench)	Dr. G. E. Harthan	5	1 0	350	..	16·71	..	91
Alcester (Cookhill)	T. Barber, Esq.	5	1 0	400	24·5	24·84	171	..
D Redditch (Hewell Gardens)	Mr. F. Molyneux	5	1 0	469	27·7	23·86	180	126
D Alvechurch (Fairfield)	D. McMichael, Esq., J.P.	5	1 0	400	29·4	26·84	183	133
D Bromsgrove (Lr. Bittall Res.) *new g*	A. J. Cullis, Esq., C.E.	5	1 0	457	..	25·80	188	131
4.—THAMES—Windrush & c. 10 sq. mi.								
5.—TRENT—Right Bank Tributaries. 56 sq. mi.								
D Halesowen (Frankley)	J. W. Wilkinson, Esq., C.E.	5	0 10	571	30·7	27·64	210	138
D Northfield (Frankley Lodge Rd.)	A. A. Barnes, Esq., C.E.	5	1 0	548	..	28·53	208	135
D Oldbury (Barnford Hill Pk.)	W. Greenwood, Esq., C.E.	5	0 9	607	..	26·60	178	145
WARWICKSHIRE. (Area, 902 sq. mi.)								
1.—SEVERN—Upper Avon. 603 sq. mi.								
d Long Compton (Weston Park)	Mrs. H. A. Warriner	8	1 0	510	26·5	22·65	..	118
D Tredington	N. H. Walton, Esq.	5	1 0	200	..	20·42	175	121
D Stratford-on-Avon (Crimscote)	Mrs. E. Canning	5	1 1	250	..	21·09	157	121
d Kineton (Kineton House)	J. Fielden, Esq., J.P.	5	1 6	280	..	20·61	..	126
d Stratford-on-Avon (Milcote)	F. W. Jones, Esq., C.E.	5	1 6	122	23·6	22·02	..	111
D Stratford-on-Avon (Thurlaston)	Miss M. A. Everard	5	0 11	134	24·2	20·49	166	110
D Stratford-on-Avon (Shottery Hall)	R. C. Carter, Esq.	8	1 0	140	23·9	21·70	162	121
D Bidford (Moor Hall) (+A)	E. H. Cubberley, Esq.	5	1 0	125	24·0	19·32	166	118
d Temple Grafton Court	L. Lonsdale, Esq.	8	1 3	270	24·8	18·62	..	110
d Alcester (Ragley Hall)	Mr. C. Harding	5	1 0	270	25·8	21·26	..	117
D STRATFORD-ON-AVON (Clopton Ho.)	A. W. Beecham, Esq.	5	1 0	210	..	17·74	160	107
Ashorne (Victoria Cottage)	G. T. Osborn, Esq.	5	1 0	160	24·7	18·49	..	..
D Stratford-on-Avon (Snitterfield)	F. W. Jones, Esq.	5	1 6	274	25·2	17·81	165	107
D Southam (Stockton House)	G. B. Blyth, Esq.	6	1 6	394	23·1	20·16	164	109
D Studley College	The Head Mistress	5	0 9	235	27·0	21·05	155	114
D Warwick Castle Gardens	Mr. H. F. Smale	5	1 0	197	25·3	19·94	170	118
D Warwick (St. Nicholas Pk.)	R. Wormell, Esq., C.E.	5	1 0	155	..	19·91	153	113
D LEAMINGTON SPA (Pump Rm. Gdns.)	Medical Officer of Health	8	1 0	163	24·0	21·38	153	110
D Leamington Spa (Campion Ter. PS.)	The Borough Engineer	5	1 0	225	..	21·71	146	110
D Leek Wootton (The Lodge)	W. F. Mitchell, Esq.	5	1 0	249	..	25·29	182	122
D Dunchurch Hall	C. H. Cooke, Esq.	5	1 1	400	..	23·19	163	121
D Dunchurch Lodge Gardens	Major H. S. Cayzer	5	1 0	380	24·4	22·73	153	122
D Stretton-on-Dunsmore (Manor Ho.)	Mrs. Lister-Kaye	5	1 0	280	..	22·91	153	123
D Rugby (Bilton Grange) *new g*	Mr. J. S. Buckby	5	1 0	400	..	23·64	167	121
D RUGBY (Caldecott)	Headmaster, Rugby School.	5	1 0	390	25·6	21·38	179	120
D Rugby (Avon W.W.)	W. H. Spicer, Esq., C.E.	5	1 0	282	..	21·20	156	113

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	Days with ·01 in. or more.	Days with ·04 in. or more.
	WARWICKSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—SEVERN—Upper Avon—(*con.*).								
d	Ryton-on-Dunsmore (Ryton Ho.)	Charles Browett, Esq.	5	1 2	260	26·0	23·70	..	123
D	Coventry (Whitley P. S.)	City Engineer, Coventry	8	1 0	238	..	20·85	166	122
D	Coventry (Stoke) (+A)	W. R. Griffiths, Esq.	5	1 0	267	..	20·48	160	117
D	COVENTRY (City Hospital)	Medical Officer of Health	8	1 0	241	26·0	20·95	164	121
D	Coventry (Rosehill)	Miss H. Rotherham	5	0 10	330	..	23·16	207	127
D	Astley Vicarage	Rev. I. F. H. Carr-Gregg	5	1 0	440	..	20·60	152	111
	2.—THAMES—Windrush & c., 2 sq. mi.								
	3.—THAMES—Cherwell. 15 sq. mi.								
	4.—TRENT—Right Bank Tributaries. 282 sq. mi.								
	Coventry (Balsall Common)	The Headmaster	5	1 0	400	..	24·30	..	..
D	Northfield (Wych Elm)	J. B. Shewell, Esq.	5	1 4	540	29·3	26·40	187	128
D	Highters Heath Res.	J. W. Wilkinson, Esq., C.E.	5	1 0	517	..	24·77	185	126
D	Northfield (Bartley Res. No. 1)	A. A. Barnes, Esq., C.E.	5	1 0	600	..	27·49	196	128
D	Moseley (Cotton Lane)	U. A. Baker, Esq.	5	1 0	450	..	24·38	183	121
D	Bartley (Bromwich Wood)	J. W. Wilkinson, Esq., C.E.	5	1 0	611	..	28·46	195	132
D	Selly Oak (Bournville)	Messrs. Cadbury Bros., Ltd.	8	1 0	469	29·1	26·26	203	131
D	Selly Oak (Witherford Way)	Mrs. Neave	8	1 6	530	..	26·33	187	136
D	Selly Oak (Frederick Rd.)	W. Garden, Esq.	5	1 0	540	29·2	25·73	198	136
D	BIRMINGHAM (SPARKHILL)	D. H. Owen, Esq.	5	1 0	425	28·1	23·62	172	116
D	BIRMINGHAM (EDGBASTON)	Midland Inst. (A. J. Kelley)	8	1 0	536	26·5	23·29	192	123
D	Birmingham (Carpenter Road)	L. Ashby Bolton, Esq.	5	1 1	480	28·1	24·09	210	125
D	Birmingham (Icknield Port)	Birmingham Canal Navgtn.	5	1 0	490	..	22·74	188	121
D	Birmingham (Stechford)	Birmingham Drainage Bd.)	5	1 6	303	..	21·79	182	117
D	Birmingham (Saltby S.W.)	Birmingham Drainage Bd.	5	1 0	292	..	22·62	159	123
D	Nuneaton (The Quarry)	Miss K. E. Smith	5	1 0	321	..	22·47	189	127
D	Ullesthorpe (High Cross)	J. Parker Toone, Esq.	5	1 0	..	..	19·21	172	131
D	Birmingham (Handsworth Pk.) (+A)	The City Engineer	8	1 4	424	..	23·48	171	130
D	Whitacre (Birmingham W.W.)	J. W. Wilkinson, Esq., C.E.	5	1 0	269	26·0	20·32	169	112
D	Birmingham (Erdington) *new g.*	J. W. Wilkinson, Esq., C.E.	5	1 0	442	..	23·22	185	123
D	Birmghm. (Erdington, Spring Ln.) (+A)	The City Engineer	8	1 0	386	..	24·39	183	130
D	Minworth Greaves	Birmingham Drainage Bd.	8	1 0	259	24·3	19·50	175	118
D	Nuneaton P.S. (*new g.*)	R. C. Moon, Esq., C.E.	8	1 3	269	..	16·95?	161	108
D	Nuneaton (Hartshill Sewage Wks.)	R. C. Moon, Esq., C.E.	5	1 2	288	..	21·02	161	116
D	Sutton Coldfield (The Park)	Borough Surveyor	5	1 0	370	26·4	24·32	182	134

DIVISION VII—NORTH MIDLAND COUNTIES.

LEICESTERSHIRE. (Area, 824 sq. mi.)

	1.—SEVERN—Upper Avon. 41 sq. mi.								
	Rugby (Catthorpe Manor)	(R) W. G. Douce, Esq.	10	3 6	400	..	17·32	..	..
D	Welford (The Reservoir)	Grand Union Canal Co.	5	2 0	430	25·1	20·54	187	125
	Lutterworth (Leicester Rd.)	M. W. Binns, Esq.	5	1 0	430	..	22·40	180	..
d	Lutterworth (Waterworks)	The Surveyor	8	1 9	414	..	21·24	..	124
	2.—WELLAND. 96 sq. mi.								
d	Market Harborough †	G. C. Wooldridge, Esq.	5	1 0	260	..	(18·49)	(178)	(109)
D	Market Harboro' (Shrewsbury Ave.)	P. J. Harris, Esq., B.Sc.	5	1 0	350	..	20·22	177	107
d	Market Harboro' (Grammar Sch.)	P. J. Harris, Esq., B.Sc.	5	1 0	350	..	18·49	..	..
D	Market Harborough (Rose Hill)	G. O. Nicholson, Esq.	5	1 0	350	24·7	19·69	151	109
D	Kibworth Beauchamp	Dr. E. V. Phillips	5	1 0	390	25·7	20·92	164	127
D	East Norton	Mrs. F. A. Wortley	5	1 0	460	..	20·54	153	121
	3.—WITHAM. 7 sq. mi.								
	4.—TRENT—Right Bank Tributaries. 680 sq. mi.								
D	Frolesworth	W. P. Widdowson, Esq.	5	1 0	370	..	19·85	160	111
D	HINCKLEY (Edward Street)	E. H. Salter, Esq.	5	1 0	425	..	24·52	175	140
D	Wistow Hall Gardens	The Lord Cottesloe, C.B.	5	1 0	309	23·6	19·37	153	120
D	Countesthorpe (Wigston Sew. Fm.)	The Surveyor	8	0 9	257	22·8	18·60	169	116
d	Leicester (London Rd.)	L. Herbert, Esq.	5	4 0	300	..	19·24	..	..
D	Leicester (Stoughton Drive)	Theodore B. Ellis, Esq.	5	1 0	315	..	20·68	163	125
D‖	Leicester (Town Hall Square) (+A)	A. T. Gooseman, Esq., C.E.	5	1 0	212	..	19·49	165	128
D	Leicester City Mental Hosp.	The Steward	8	1 0	266	24·2	21·17	191	130
D	Leicester (Gilroes Cemetery)	A. T. Gooseman, Esq., C.E.	5	1 0	294	..	21·61	151	129

† Gauge previously at Gardiner Street.

‖ Record too low, gauge over-sheltered.

DIVISION VII—NORTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
LEICESTERSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—TRENT—Right Bank Tributaries—(*con.*).								
D Leicester (Groby Road)	Miss V. D. Ellis	5	1 0	244	25·0	24·86	175	135
D Osbaston Hall	Sir Thomas Cope, Bart.	8	1 0	393	..	25·36	184	128
d Lowesby Hall Gdns	Mr. T. Hardie	5	1 0	480	..	23·02	..	120
D Thornton Reservoir	G. T. Edwards, Esq., C.E.	8	1 2	370	26·2	25·58	156	132
D Cropston (Bradgate Res.)	G. T. Edwards, Esq., C.E.	8	1 0	245	27·2	24·40	171	132
D Barkby Hall	Victor R. Pochin, Esq.	5	1 0	227	24·5	22·88	164	129
D Swithland (The Brand)	G. T. Edwards, Esq., C.E.	8	1 0	171	26·0	21·34	150	121
d Ashby-de-la-Zouche	Miss A. I. Bayford	5	0 10	450	..	21·17	(178)	(131)
D Barrow-upon-Soar (The Mount)	Mrs. A. W. Marshall	5	1 6	..	23·6	20·15	155	120
D Charnwood Forest (Charley Hall)	Mrs. J. B. Martin	5	1 0	500	..	26·52	153	131
D Hoby (The Grange)	A. A. Ironside, Esq.	5	1 0	235	..	19·75	159	118
D Asfordby Hill (Ironworks)	Stanton Ironworks Co., Ltd.	5	1 1	324	..	20·15	173	129
D Melton Mowbray (White Lodge)	H. K. Barker, Esq.	8	1 6	237	22·9	21·60	190	129
d Charnwood For. (Blackbrook R.)	W. Granger, Esq., C.E.	5	1 0	379	26·4	22·15	..	118
D Loughborough (Park Road)	W. Llewellyn Mold, Esq.	5	1 0	190	23·7	21·14	164	113
D Loughborough (Nanpantan Res.)(+A)	W. Granger, Esq., C.E.	5	1 0	269	26·1	23·44	171	123
D Loughborough (Fairmount Drive)	B. N. Wale, Esq., B.Sc.	5	0 6	210	..	21·82	160	119
D Loughborough (The Widenings)	Mrs. A. Butler	5	1 0	197	24·5	22·27	187	128
D Loughborough (Sewage Farm)	W. Granger, Esq., C.E.	8	1 0	135	23·1	19·57	148	113
D Burton-on-the-Wolds (Burton Hall)	Earl of Huntingdon	5	1 0	270	24·2	21·67	142	123
D Prestwold Hall Gardens	Mr. W. I. Coe	8	1 0	209	24·7	21·31	151	117
Scalford	Melton Mowbray, U.D.C.	8	0 10	343	..	22·82	..	..
D Grantham (Belvoir Cas. Gdns.)	The Duke of Rutland, K.G.	8	1 0	259	25·1	21·39	166	127
RUTLAND. (Area, 152 sq. mi.)								
1.—WELLAND. 125 sq. mi.								
D Uppingham (Ridlington)	C. Wortley, Esq.	5	1 0	527	25·3	20·18	161	121
D Hambleton Manor	Major J. Orr-Ewing, M.C.	5	1 0	400	23·9	19·67	154	117
2.—WITHAM. 5 sq. mi.								
3.—TRENT—Right Bank Tributaries. 22 sq. mi.								
LINCOLNSHIRE. (Area, 2,646 sq. mi.)								
1.—NENE. 100 sq. mi.								
D Tydd (North Level Sluice)	Mr. S. Fovargue	5	1 0	10	*23·7*	18·07	145	101
2.—WELLAND. 341 sq. mi.								
d Crowland	F. Husband-Clutton, Esq, M.R.C.S.	5	1 0	10	*21·9*	17·49	..	103
D Market Deeping (Wilsthorpe)	W. H. A. Court, Esq., C.E.	8	1 0	51	*20·9*	15·60	149	93
D Spalding (Pode Hole)	H. Bain, Esq.	8	1 3	12	23·5	18·67	201	110
D Bourne (Guthram)	F. Sanderson Robins, Esq., C.E.	8	1 6	19	*21·1*	18·60	165	110
d Spalding (Spalding Marsh)	Messrs. Seymour Cobley, Ltd.	5	0 8	0	*21·6*	17·97	..	94
3.—WITHAM & C. 1085 sq. mi.								
d Stainby Rectory	Rev. W. L. de B. Thorold	4	0 9	496	*24·5*	21·72	..	106
D Denton Manor	Sir C. G. E. Welby, Bt., C.B.	5	1 0	310	*25·6*	21·85	167	122
D Grantham (Saltersford)	H. Preston, Esq.	5	0 6	188	*24·1*	20·56	176	125
D Grantham (Central School)	The Headmaster	5	0 8	191	..	20·52	158	115
d Culverthorpe	E. H. Davies, Esq.	5	1 2	200	*24·9*	20·90	..	112
D Wyberton (Tytton Hall)	V. A. C. Durand, Esq.	5	1 0	10	..	18·31	156	112
d Fishtoft School	W. Rimington, Esq.	5	1 0	0	*20·8*	15·95	..	..
D Boston (Black Sluice, Skirbeck)	F. S. Robins, Esq., C.E.	8	1 3	11	22·8	18·35	159	112
D Boston (Grand Sluice)	F. H. Tomes, Esq., C.E.	8	1 0	10	*22·9*	18·95	148	110
D Boston (Bargate End)	A. O. Scrivener, Esq.	8	1 4	9	*21·6*	16·88	147	100
D East Heckington	V. A. C. Durand, Esq.	5	1 0	15	..	18·34	146	109
D Leasingham Rectory	Rev. A. R. Tucker	5	1 6	100	..	18·28	148	105
D Cranwell (Aerodrome) (+A)	Officer-in-Charge	8	1 0	236	23·2	19·53	165	109
D New Leake (Lade Bank Engine)	V. A. C. Durand, Esq.	5	1 0	10	*22·6*	17·30	125	102
D Carrington Grange	T. J. Ward, Esq.	5	6 0	15	*23·4*	18·18	139	112
D Wellingore	Rev. Canon H. Powell Smith	5	1 0	246	*23·3*	22·57	202	129
D Boston (Eastville)	V. A. C. Durand, Esq.	5	1 0	10	..	18·05	167	105
D Navenby Rectory	J. Thompson, Esq.	5	1 0	218	*24·5*	23·31	167	125
D Carlton-le-Moorland	J. Brocklebank, Esq.	5	1 2	50	*23·3*	20·52	167	111
D Blankney Hall Gardens	Mr. N. G. Cleaver	5	0 9	57	*24·0*	22·46	178	118
D East Kirkby (E. Kirkby Manor)	Capt. R. S. Fieldsend	5	1 0	35	*23·8*	19·96	160	122

DIVISION VII—NORTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	Days with ·01 in. or more.	Days with ·04 in. or more.
	LINCOLNSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—WITHAM & C.—(*con.*).								
d	Revesby Reservoir	T. H. Tyson, Esq.	5	2 0	124	24·5	17·54	..	108
D	Woodhall Spa (Galen House)	J. Collins, Esq.	5	1 0	38	*22·9*	18·89	149	102
D	Woodhall Spa	J. Collins, Esq.	5	1 0	42	*23·4*	18·75	148	102
D	Horncastle	F. J. Harvey, Esq.	5	1 0	120	*24·8*	21·69	174	111
D	Lincoln (Swallowbeck)	W. R. Pennell, Esq.	8	1 0	34	*22·9*	21·19	169	110
d	Lincoln (Skellingthorpe Hall)	A. H. Bergne-Coupland, Esq.	5	1 0	40	23·1	22·05	..	..
d	Sudbrooke (The Manor Ho.)	Miss A. M. Scorer	5	1 6	55	..	22·26	..	117
D	Hackthorn Hall	Major W. C. Amcotts, M.C., J.P.	5	4 8	102	*23·2*	21·26	183	114
D	Springthorpe Rectory	Rev. B. Davies	5	1 0	73	*23·6*	19·79	167	126
	4.—GREAT EAU & C. 443 sq. mi.								
D	Wainfleet (Thorpe Culvert)	V. A. C. Durand Esq.	5	1 0	10	..	17·80	146	103
d	Little Steeping	V. A. C. Durand, Esq.	5	1 0	10	..	17·30	..	102
D	Skegness (Marine Gardens)	The Surveyor	8	1 0	15	23·3	18·98	161	103
D	East Keal Rectory *new g*	Rev. R. H. Simpson	5	1 0	180	*25·2*	19·57	168	119
D	Spilsby	J. E. Bolt, Esq.	5	1 4	124	*26·3*	20·77	152	113
D	Hagworthingham (Glebe House)	Mr. R. Wright	5	1 0	240	*27·2*	22·02	164	121
D	Mablethorpe (Trusthorpe Hall)	I. N. Woodiwiss, Esq.	8	1 3	10	*25·2*	19·37	170	108
D	Mablethorpe	Borough Surveyor	5	1 0	7	*24·0*	19·82	157	115
D	Louth (Westgate)	Rev. W. E. Yates	5	0 9	120	28·0	23·56	177	119
D	Wold Newton Manor	W. Maurice Wright, Esq.	5	1 6	230	*27·2*	23·47	203	131
D	Grainsby Hall	Mr. J. Butters	5	1 0	75	*27·2*	22·76	183	124
	5.—HUMBER—Right Bank Tributaries. 428 sq. mi.								
D	North Willingham House	Mrs. Charles Wright	5	3 0	125	*28·6*	29·30	226	165
D	Glentham (Bishopbridge)	A. R. Haynes, Esq.	5	1 1	20	..	23·39	169	125
D	Brigg (Thornholme)	E. I. Brown, Esq.	5	*1 5	22	..	20·76	165	104
D	Brigg (Wrawby Road)	A. R. Haynes, Esq.	5	1 1	22	*25·0*	21·34	168	109
D	Cleethorpes (Kings Parade)	The Engineer & Surveyor	5	1 0	23	*24·0*	19·45	153	107
D	Grimsby (Little Coates, P.S.)	The Engineer & Manager	5	1 0	14	..	20·29	182	117
D	Grimsby (Portland Place)	W. J. Wood, Esq., C.E.	5	1 8	13	*24·7*	22·56	192	138
D	Grimsby (Westlands)	Major G. L. Bennett	5	1 0	23	*23·7*	19·34	164	115
D	Brocklesby Park	Mr. J. Chisholm	5	1 0	90	*27·0*	21·74	174	120
D	Ulceby (Wootton Lodge)	H. M. Webb, Esq.	5	1 0	100	*27·1*	23·45	163	125
D	Normanby	R. S. Long, Esq.	5	1 0	180	..	20·04	174	125
D	Ferriby Sluice	F. Straw, Esq.	5	1 0	18	*24·5*	20·51	180	122
	6.—TRENT—Right Bank Tributaries. 172 sq. mi.								
d	Woolsthorpe	L. and N.E. Rly.	5	1 3	182	*23·4*	20·15	..	106
D	Torksey	Miss M. Burtt	5	3 0	18	*23·2*	19·03	151	117
d	Gate Burton Hall	The Hon. Mrs. Sandars	5	1 6	97	*23·1*	18·45	..	101
D	Scunthorpe (Henderson Av. Sch.)	W. E. Ramsden, Esq.	5	3 6	140	..	18·80	176	117
	7.—TRENT—Left Bank Tributaries. 77 sq. mi.								
D	Wroot (S. Level Pump Station)	Mr. A. J. Trafford	10	1 6	8	*21·7*	19·24	153	105
d	Crowle (N. Level Pump Station)	Mr. H. G. Trafford	5	2 0	10	*22·0*	20·78	..	107
D	Crowle (Snowdrop Villa)	Crowle Drainage Board	5	1 0	15	..	21·25	170	115
	NOTTINGHAMSHIRE. (Area, 843 sq. mi.)								
	1.—WITHAM. 10 sq. mi.								
	2.—TRENT—Right Bank Tributaries. 218 sq. mi.								
D	Sutton Bonington (Agric. Coll.)	(+A) The Principal	5	1 0	157	21·7	18·90	146	112
D	Ruddington (Westlands)	J. D. Walker, Esq.	5	1 0	100	24·3	19·74	167	111
D	Nottingham (Wilford Hill Res.)	F. W. Davies, Esq., C.E.	8	1 0	295	23·1	20·41	166	113
D	East Bridgford	G. W. Beaumont, Esq.	5	1 0	150	..	19·66	149	110
D	Newark	J. H. Clarke, Esq., C.E.	5	0 9	43	23·4	18·66	149	102
D	Newark (Sewage Works)	J. H Clarke, Esq., C.E.	5	1 0	33	..	18·50	147	104
d	North Collingham	Miss M. Bergne-Coupland	5	1 6	40	..	19·86	..	115
	3.—TRENT—Derwent. 2 sq. mi.								
	4.—TRENT—Erewash. 42 sq. mi.								
D	Nottingham (Strelley)	Miss Edge	8	1 0	386	26·2	23·81	188	125
D	Nottingham (Strelley Hall) *new g.*	Miss Edge	5	1 0	377	..	23·88	170	126
D	Bulwell (Watnall Reservoir)	F. W. Davies, Esq., C.E.	8	1 0	468	29·0	24·41	166	126
D	Eastwood Waterworks	F. W. Davies, Esq., C.E.	8	1 3	243	25·9	22·66	192	117
d	Eastwood Hall	Messrs. Barber, Walker & Co., Ltd.	5	1 0	218	..	22·75	(163)	(118)
D	Eastwood (Moorgreen Res.)	L. and N. E. Rly. Co.	5	2 0	301	27·4	22·01	170	118

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NOTTINGHAMSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—TRENT—Left Bank Tributaries. 569 sq. mi.								
D ATTENBOROUGH	Messrs. Granger	8	1 0	89	..	19·58	172	112
D Beeston (Council Depot)	E. A. Bush, Esq.	5	1 0	121	24·5	21·48	161	112
D Bramcote Reservoir	F. W. Davies, Esq., C.E.	8	1 0	327	..	21·69	173	116
D Nottingham (Trent Lane) (+A.)	T. Wallis Gordon, Esq., C.E.	8	1 0	83	22·5	20·42	169	109
D NOTTINGHAM (The Castle)	T. Wallis Gordon, Esq., C.E.	8	1 0	192	23·6	20·15	173	107
D Nottingham (Colwick Hill Res.)	F. W. Davies, Esq., C.E.	8	1 0	314	..	20·53	153	109
D Nottingham (Burford Road)	A. B. Tinn, Esq.	5	1 0	170	25·3	22·10	167	111
D Nottingham (Stoke Bardolph)	T. Wallis Gordon, Esq., C.E.	8	1 0	66	22·6	19·34	154	102
D Nottingham (Mapperley Hill)	Dr. G. L. Brunton	8	1 0	400	24·9	22·59	173	114
D Bagthorpe (Isolation Hospital)	Dr. Cyril Banks	8	2 0	190	25·3	21·71	186	115
D Nottingham (Basford W.W.)	F. W. Davies, Esq., C.E.	8	1 0	168	24·3	21·66	160	109
d Burton Joyce Waterworks	F. W. Davies, Esq., C.E.	8	1 0	65	25·2	20·78	..	107
D Bulcote (Corporation Farm)	T. Wallis Gordon, Esq., C.E.	10	1 3	65	23·6	21·71	150	110
Lowdham (Chilwell Nurseries)	A. J. Pearson, Esq.	5	1 0	90	..	(19·64)	..	..
D Bulwell (Bestwood W.W.)	F. W. Davies, Esq., C.E.	8	1 0	312	25·7	19·34	169	102
D Daybrook (Red Hill Reservoir)	F. W. Davies, Esq., C.E.	8	1 0	404	26·8	22·30	196	116
D Daybrook (Ramsdale Hill Res.)	F. W. Davies, Esq., C.E.	8	1 0	504	28·1	23·63	201	115
D Bulwell Hall Park	T. Wallis Gordon, Esq., C.E.	8	1 0	252	27·3	23·09	172	118
D Papplewick (Waterworks)	F. W. Davies, Esq., C.E.	8	1 0	317	27·0	22·39	158	113
D Southwell (The Residence)	Ven. Archd. W. J. Conybeare.	5	1 0	100	24·7	20·00	154	109
d Sutton-in-Ashfield (Rushley P.S.)	Messrs. G. & F. W. Hodson.	5	1 0	462	27·1	24·41	..	..
D Sutton-in-Ashfield (Sewage Wks.)	F. J. Grierson, Esq.	5	1 0	453	28·9	23·93	161	121
d Mansfield (Rainworth W.W.)	J. Gibson, Esq., C.E.	5	1 0	360	27·5	21·35	..	103
D Mansfield (Rosemary Boys' Sch.)	A. J. Rippon, Esq.	5	0 6	360	..	22·48	159	110
D MANSFIELD (Carr Bank)	Borough Surveyor	8	0 10	357	..	23·69	151	121
D Mansfield (West Bank)	W. Pickard, Esq.	8	1 0	405	27·6	25·40	185	116
D Clipstone Waterworks	J. Gibson, Esq., C.E.	5	1 0	225	25·9	19·62	140	101
Warsop	The Surveyor	8	1 0	192	..	21·02	190	114
D Ollerton (Boughton W.W.)	F. W. Davies, Esq., C.E.	8	1 0	141	24·6	19·25	171	106
D Ollerton (Thoresby Gardens)	Mr. A. J. Simmons	5	1 0	125	26·6	20·28	147	114
D Welbeck Abbey	Mr. Chas. Harris	8	0 10	196	..	21·84	179	117
D Clumber Gardens	The Agent	5	1 0	164	..	21·35	156	115
D Elkesley Pumping Station	Lincoln W.W.	5	1 0	120	24·0	19·61	149	106
D Worksop (Bracebridge S.W.)	The Boro' Engineer	8	1 0	97	..	20·53	161	109
D Worksop (Osberton Gardens)	Head Gardener	5	3 0	70	23·8	16·27	152	111
D Retford (Morton Hall)	W. H. Mason, Esq.	9	1 0	140	23·7	20·11	136	105
D Retford (Sewage Disposal Wks.)	R. E. Wilson, Esq.	5	1 0	74	..	21·43	155	124
D Retford (Babworth Hall)	Major J. A. C. Whitaker	5	1 6	98	22·9	18·68	152	108
D Worksop (Wigthorpe Hill)	R. C. P. Ramsden, Esq.	5	1 0	100	23·7	21·05	163	116
D WORKSOP (Hodsock) (+A)	Miss E. F. Mellish	8	1 0	56	23·6	21·39	182	114
D Harworth Colliery	Messrs. Barber, Walker & Co.	5	1 0	120	..	20·05	148	105
D Bircotes (Council School)	The Headmaster	5	0 10	123	..	19·29	156	109
D Scrooby	Mr. J. Mallender	5	1 0	40	23·1	20·43	192	114
D Bawtry Hall (The Gardens)	Mr. F. E. Hogbin	5	1 0	31	23·1	21·12	165	117
d Bawtry Council Sch.	J. Rushworth, Esq.	5	1 0	37	..	(20·69)	..	..
6.—OUSE—Don. 2 sq. mi.								
DERBYSHIRE. (Area, 1,029 sq. mi.).								
1.—MERSEY, UPPER. 93 sq. mi.								
D Fernilee (Wythen)	T. Dearden, Esq.	5	1 0	1100	..	41·73	218	179
D Fernilee (Upr. Hall Farm)	T. Dearden, Esq.	5	1 0	960	..	44·70	218	182
D Hayfield (Kinder)	T. Dearden, Esq.	5	1 6	940	..	42·51	225	176
D Hayfield (Kinder Filters)	T. Dearden, Esq.	5	1 6	800	..	40·91	223	175
D Glossop W.W. (Swineshaw)	Geo. Faulds, Esq., C.E.	12	1 0	733	43·2	39·43	216	169
Bleaklow Hill (Dowstone Rocks)	Manchester Corpn. W.W.	5	1 0	1718	..	55·67	..	..
Bleaklow Hill (Far Black Clough)	Manchester Corpn. W.W.	5	1 0	1683	..	55·99	..	..
2.—MERSEY—Weaver. 2 sq. mi.								
3.—TRENT—Right Bank Tributaries. 68 sq. mi.								
D Melbourne Vicarage	Rev. E. T. Harcombe	10	1 0	180	25·6	22·10	170	134
D Stanton-by-Bridge W.W.	H. Raven, Esq., C.E.	8	1 2	144	24·2	21·41	181	129
4.—TRENT—Dove. 156 sq. mi.								
d Rodsley Pumping Station	The Engineer	5	1 0	405	..	24·60	..	..
D Ashbourne Vicarage	Rev. Canon F. L. Shaw	5	1 6	500	34·7	28·74	214	152
D Ashbourne (Windmill Lane)	Rev. E. R. Redfern	5	1 4	535	..	27·35	204	144
D Hognaston Vicarage	Rev. C. L. O'Ferrall	5	1 4	650	..	29·56	195	139

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	DERBYSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—TRENT—Left Bank Tributaries. 84 sq. mi.								
d	Etwall (Blakeley Lodge)	G. Edge Laban, Esq.	5	1 4	190	24·1	21·03	..	126
D	Etwall (Sewage Farm)	Mr. B. Hydes	5	1 8	201	23·2	22·10	156	134
D	Etwall Hall	Col. M. Dawson	5	1 3	235	..	21·86	170	129
	Shardlow	M. R. Evans, Esq.	5	1 0	111	..	18·53	..	..
D	Mickleover (C. Mental Hospital)	Medical Superintendent	5	1 0	300	24·4	20·51	165	118
D	Littleover (The Knoll)	W. Blews Robotham, Esq.	5	1 0	300	25·2	22·23	181	132
D	Littleover (Hilltop)	E. McInnes, Esq.	5	1 0	346	25·8	22·75	212	128
	6.—TRENT—Derwent. 428 sq. mi.								
D	Spondon (Derby Sewage Wks.)	E. H. Bennett, Esq., C.E.	5	1 3	135	25·5	20·69	165	112
D	Derby (Park Grove)	Messrs. J. Davis & Son, Ltd.	5	1 0	198	..	23·22	177	132
d	Derby (L. M. & S. Railway)	A. F. Bound, Esq.	5	1 0	156	25·1	21·24	..	..
D	Derby (Royal Infirmary)	W. Banks, Esq.	5	1 0	190	26·3	23·10	174	137
D	Derby (The Arboretum) (+A)	E. H. Bennett, Esq., C.E.	8	1 0	196	26·2	20·88	181	112
D	Mackworth Vicarage	Rev. W. G. Clark-Maxwell	5	1 0	225	..	22·80	169	125
D	Breadsall Priory	E. S. Haslam, Esq.	5	1 3	360	..	26·86	167	129
D	Duffield (The Kirkstyles)	Messrs. J. Davis & Son, Ltd.	5	1 0	235	28·3	25·16	185	132
d	Heanor (Denby)	J. R. Groom, Esq.	5	1 0	440	..	24·42	(172)	(129)
D	Belper (Herbert Strutt School)	The Principal	5	0 8	222	29·9	23·61	182	122
D	Belper (Quarry Bank)	J. Hunter, Esq., C.E.	5	0 10	280	29·7	23·72	182	126
D	Ambergate Reservoir....No. 61	Derwent Valley Water Bd.	5	1 0	700	28·9	24·75	174	129
D	Wirksworth	The Surveyor, U.D.C.	5	1 1	690	..	28·88	193	129
D	Whatstandwell (Meerbrk. Sough)	Messrs. G. & F. W. Hodson.	5	0 6	246	33·6	29·22	186	136
D	Brackenfield (Lindway Res.)	R. F. Ward, Esq., C.E.	5	1 0	595	31·9	27·24	171	122
D	Matlock Bath (Lower Tower)	Miss E. Chadwick	5	1 1	500	33·7	27·39	197	144
D	Matlock (Rockside Hydro.)	J. H. Goodwin, Esq.	5	1 0	637	32·6	27·25	174	130
D	Darley Dale (Whitworth Inst.)	E. Evans, Esq.	5	1 0	361	32·9	29·04	178	120
D	Clay Cross (Press Reservoirs)	Gilbert Frith, Esq., C.E.	8	1 0	810	31·7	26·29	180	132
M	Buxton (Hurdlow Top)	L. M. & S. Rly. Co.	8	1 10	1267	..	52·20	..	..
D	Chatsworth Gardens	Mr. J. G. Weston	5	1 0	436	34·7	24·40	181	131
D	Baslow (Titheacre)	Mrs. S. E. Milner, O.B.E.	5	1 6	500	..	29·57	192	145
D	Buxton (Portobello Bar)	F. Langley, Esq., C.E.	8	1 0	1600	55·9	46·05	227	180
D	Buxton (Stanley Moor)	F. Langley, Esq., C.E.	8	1 0	1340	52·1	41·62	228	174
D	Buxton (Burbage Edge)	F. Langley, Esq., C.E.	8	1 0	1400	52·8	40·22	227	169
D	Buxton (Ashwood Dale S.W.)	F. Oliver, Esq.	5	3 0	1010	..	43·16	225	185
D	Buxton (Terrace Slopes)	The Town Clerk	8	1 0	1007	48·4	43·06	212	169
D§	Buxton (Lightwood)	F. Langley, Esq., C.E.	8	0 11	1191	..	39·58	214	169
d	Bamford (Engineer's Office) No. 60	Derwent Valley Water Bd.	8	1 0	510	37·8	34·81	..	..
D	Bamford Filters.....No. 70A	Derwent Valley Water Bd.	8	1 0	656	39·1	35·53	216	159
W	Froggatt Edge (Stoke Flat)	J. G. Bown, Esq.	5	1 0	960	36·5	32·83	..	..
D	Holmesfield (Barbrook Res.)	Gilbert Frith, Esq., C.E.	8	1 0	1080	35·6	33·57	192	163
	Holmesfield (White Edge)	Sheffield Corporation W.W.	5	1 0	1209	..	33·16	..	..
D	Burbage (Lower Burbage)..(+A)	Sheffield Corporation W.W.	8	1 0	924	36·2	33·78	202	161
D	Hope (Cement Works)	Messrs. S. & T. Earle, Ltd.	5	1 0	580	..	36·55	198	147
D	Hope (Killhill Bridge).....No. 56	D. W. Chadwick, Esq.	5	1 0	500	40·4	35·82	206	166
d	Bamford (Yorkshire Br. Weir) 59A	Derwent Valley Water Bd.	5	1 0	540	36·7	35·24	..	..
	Ladybower .....No. 73	Derwent Valley Water Bd.	5	1 0	980	..	(38·35)	..	..
D	Derwent Vicarage .....No. 67A	Derwent Valley Water Bd.	8	1 0	675	43·6	39·72	218	176
	Hagg Farm .....No. 81	Derwent Valley Water Bd.	8	1 0	715	..	43·50	..	..
D	Ashop Weir.....No. 80	Derwent Valley Water Bd.	5	1 0	793	..	53·05	220	176
	Fairholmes (Nursery)†....No. 26A	Derwent Valley Water Bd.	5	1 0	685	42·8	41·99	217	170
	Middle Seal Clough .....No. 79	Derwent Valley Water Bd.	5	1 0	1075	..	53·13	..	..
	Nether Red Clough .....No. 78	Derwent Valley Water Bd.	5	1 0	1370	..	57·68	..	..
M	Hayfield (Ashop Head)....No. 43	Derwent Valley Water Bd.	5	1 0	1650	..	46·02	..	..
	Ashop Head .....No. 43A	Derwent Valley Water Bd.	5	1 0	1680	..	57·24	..	..
	Ouzelden Clough .....No. 75	Derwent Valley Water Bd.	5	1 0	890	..	47·04	..	..
d	Derwent Dale (Birchinlee) No. 23	Derwent Valley Water Bd.	8	1 0	870	50·3	49·55	..	..
M	Lady Clough Moor.....No. 41B	Derwent Valley Water Bd.	5	1 0	1725	50·3	56·92	..	..
M	Coldharbour Moor (Summit) ..39	Derwent Valley Water Bd.	5	1 0	1670	..	46·41	..	..
	Featherbed Top .....No. 77	Derwent Valley Water Bd.	5	1 0	1665	..	58·72	..	..
D	Derwent Dale (Howden Dam) .17	Derwent Valley Water Bd.	8	1 0	829	47·7	45·46	239	175
M	Derwent Dale (Ridge Farm) ..13A	Derwent Valley Water Bd.	8	1 0	883	52·4	50·89	..	..
M	Alport Moor (Glethering Cl.)...40	Derwent Valley Water Bd.	5	1 0	1640	..	46·59	..	..
M	Alport Moor (Glethering Cl.)..40A	Derwent Valley Water Bd.	5	1 0	1640	..	54·21	..	..
M	Westend Moor (Blacklow Cote) 15	Derwent Valley Water Bd.	5	1 0	975	51·3	54·23	..	..

§ Exposure unorthodox. † Gauge previously at Derwent Dam.

DIVISION VII—NORTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	DERBYSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	6.—TRENT—(*con.*).								
M	Westend Moor	No. 10. Derwent Valley Water Bd.	5	1 0	1560	..	51·16	..	..
M	Alport Moor	No. 38B Derwent Valley Water Bd.	5	1 0	1770	54·4	62·43	..	..
	Deep Grain	No. 74 Derwent Valley Water Bd.	5	1 0	1350	..	54·56	..	..
M	Derwent Dale (Slippery Stones)	62. Derwent Valley Water Bd.	5	1 0	908	49·4	46·59	..	..
M	Ridgewalk Moor	No. 9. Derwent Valley Water Bd.	5	1 0	1650	..	49·35	..	..
M	Broadhead Clough	No. 63. Derwent Valley Water Bd.	5	1 0	1005	52·8	48·25	..	..
	Barrow Clough	No. 71. Derwent Valley Water Bd.	5	1 0	1330	..	55·88	..	..
	7.—TRENT—Erewash. 50 sq. mi.								
D	Long Eaton (Town Hall)	H. Raven, Esq., C.E.....	8	0 10	105	23·4	19·24	173	114
d	Ilkeston (New Stanton).....	Stanton Ironworks Co., Ltd.	5	1 6	150	25·2	23·82	..	..
D	Codnor (Cross Hill).....	A. F. Pine, Esq.....	5	1 0	394	27·7	24·76	173	128
D	Codnor Park.....	L. M. & S. Rly. Co.....	5	1 0	243	..	23·17	187	126
	8.—OUSE—Don. 148 sq. mi.								
D	Chesterfield (Walton San.).....	Dr. A. Niven Robertson....	5	1 0	450	29·5	24·81	165	122
D	Chesterfield (Linacre Res.).....	Chesterfield Water Board...	8	1 0	430	30·4	27·60	185	143
D	Chesterfield (Linacre Res.).....	Chesterfield Water Board...	5	1 0	475	29·7	26·51	185	143
D	Chesterfield (Sewage Works).....	S. Thornhill, Esq.....	5	1 0	223	24·9	24·98	160	123
D	Chesterfield (Crowhole Res.)	Gilbert Frith Esq., C.E. ...	8	1 0	630	..	27·10	166	141
D	Horsley Gate.....	Miss E. Wilson.....	5	1 0	650	..	30·69	184	152
D	Spinkhill (Mt. St. Mary's College)	Rev. L. Cardwell, S.J.	5	1 0	340	..	20·78	173	125

DIVISION VIII—NORTH-WESTERN COUNTIES.

	CHESHIRE. (Area, 1,027 sq. mi.).								
	1.—MERSEY, UPPER. 200 sq. mi.								
D	Langley (Twelve Ashes).....	E. Hamson, Esq., C.E.....	6	0 9	903	..	37·81	203	170
D	Langley (Trentabank Res.).....	E. Hamson, Esq., C.E.....	6	0 9	854	..	37·37	204	170
D	Langley (Bottoms Res.).....	E. Hamson, Esq., C.E.....	5	1 3	664	38·5	33·32	206	165
D	Macclesfield (Leadbeaters Res.)....	E. Hamson, Esq., C.E.....	5	1 0	608	33·1	31·17	195	164
D	MACCLESFIELD (West Park)	E. Hamson, Esq., C.E.....	5	1 0	500	34·1	33·21	198	159
D	Rainow (The Clough).....	Miss Anna Neave.....	5	1 3	815	34·4	32·94	216	159
D	Knutsford (Hazelfield).....	H. P. Ashworth, Esq.....	5	1 0	213	30·3	27·05	195	153
D	Alderley Edge (Elm Grove)	E. H. Morris, Esq.	5	1 0	300	..	28·10	198	158
D	Taxal (Oldfield)	T. Dearden, Esq.....	5	1 6	820	..	46·57	213	180
D	Kettleshulme (Glebe House).....	A. Y. Barker, Esq.....	5	1 6	850	39·6	34·06	209	160
D	Whaley Bridge (Taxal Lo.).....	Mrs. Ramsden-Jodrell.....	5	1 0	700	..	37·93	201	154
d	Whaley Bridge (Todds Brook).....	Mr. F. Bowden.....	5	1 0	602	41·5	36·69	..	..
D	Disley (Lyme Park)	T. Dearden, Esq.....	5	1 0	674	..	30·30	188	148
D	Disley (Lyme Park)	T. Dearden, Esq.....	5	1 0	720	..	32·38	193	154
D	Disley (Higher Stoneridge)	T. Dearden, Esq.....	5	1 0	750	..	34·95	198	155
D	Runcorn (Weston Point).....	Weaver Navigatn. Trustees.	8	1 4	17	31·3	27·00	182	147
D	Appleton Reservoir.....	Warrington W.W.	5	1 0	120	..	28·09	192	146
D	Moore (Uplands).....	Lt.-Comm. G. K. Rylands, R.N..	5	1 0	120	..	26·45	188	140
D	High Lane (Lyme View).....	S. Arrowsmith, Esq.....	5	1 0	602	..	30·20	208	149
D	Thelwall (The Clough).....	E. W. Reynolds, Esq.....	5	1 0	95	31·4	29·64	206	149
D	Thelwall Lea	E. H. Rideout, Esq.	5	1 0	90	..	26·84	186	144
D	Altrincham (Norman's Pl.)..	*new g.*.. Miss G. A. Griffiths.....	5	1 0	150	..	28·13	192	148
	Altrincham (Burlington Cott.).....	Miss Laura Newton.....	8	2 6	103	31·4	28·26	..	..
	Cheadle (Adswood).....	R. W. Wright, Esq.....	5	1 0	186	..	26·90	..	..
D	Stockport (Isolation Hospital).....	Medical Officer of Health...	5	1 2	285	..	27·64	196	149
D	Romiley (Greave)	F. Edwards, Esq.	5	1 0	510	..	33·85	222	178
	Godley Reservoir, *new g.*.....	Manchester Corpn. W.W....	5	1 0	488	..	31·12	..	..
D	Dukinfield (Higher Reservoir).....	M. T. B. Whitson, Esq., C.E.	8	1 6	495	..	26·42	207	141
D	Dukinfield (Lower Reservoir).....	M. T. B. Whitson, Esq., C.E.	5	1 0	435	33·0	28·45	203	149
	Torside (Clough Edge)	Manchester Corpn. W.W. ..	5	1 0	1452	..	52·23	..	..
	Arnfield Reservoir, *new g.*.....	Manchester Corpn. W.W....	5	1 0	512	..	37·13	..	..
M	Rhodes Wood Reservoir, *new g.*....	Manchester Corpn. W.W....	5	1 0	545	..	42·55	..	..
	Hollingworth Hall Moor	Manchester Corpn. W.W. ..	5	1 0	1194	..	41·77	..	..
	Torside Reservoir, *new g.*.....	Manchester Corpn. W.W....	5	1 0	669	..	43·31	..	..
D	Stalybridge (Market Ground Yd.)..	M. T. B. Whitson, Esq., C.E.	5	1 0	373	..	32·58	197	152
D	Stalybridge (Brushes Filter Ho.)...	M. T. B. Whitson, Esq., C.E.	5	1 6	615	39·2	37·95	220	170
	Swineshaw Moor (Lees Hill).....	M. T. B. Whitson, Esq., C.E.	5	1 0	1168	38·6	37·27	..	..
	Woodhead Reservoir, *new g.*.....	Manchester Corpn. W.W....	5	1 0	665	..	45·38	..	..
	Arnfield Moor	Manchester Corpn. W.W...	5	1 0	1290	..	46·31	..	..

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
CHESHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—MERSEY, UPPER—(*con.*).								
§Crowden (Span Gutter)	Manchester Corpn. W.W....	5	1 0	1530	45·0	53·38	..	..
M§Woodhead (Pikenaze)	Manchester Corpn. W.W....	5	1 0	926	..	46·13	..	..
Swineshaw Moor (Boar Flat)	Manchester Corpn. W.W....	5	1 0	1190	..	46·03	..	..
§Pikenaze Moor (Round Hill)	Manchester Corpn. W.W....	5	1 0	1514	..	51·97	..	..
Withens Moor (West Withens)	Manchester Corpn. W.W....	5	1 0	1382	..	57·32	..	..
Long Ridge Moss (Near Broadslate)	Manchester Corpn .W.W....	5	1 0	1663	..	61·21	..	..
Longside Moss	Manchester Corpn. W.W. ..	5	1 0	1418	..	55·21	..	..
§Heyden Moor (Britland Edge)	Manchester Corpn. W.W....	5	1 0	1547	..	57·49	..	..
Upper Heyden, *new g*	Manchester Corpn. W.W....	5	1 0	1708	..	56·15	..	..
§Grains Moss	Manchester Corpn. W.W....	5	1 0	1573	..	57·53	..	..
2.—MERSEY—Weaver. 489 sq. mi.								
D Wirswall Hall	F. H. Illingworth, Esq.....	5	1 0	500	..	22·86	196	145
D Nantwich (Baddiley W.W.)	Nantwich U.D.C.	5	1 0	231	28·3	22·86	182	127
D Nantwich (Dorfold Hall)	Weaver Navigatn. Trustees	8	1 0	190	28·8	24·14	211	143
D Nantwich (Reaseheath Hall)	Weaver Navigatn. Trustees.	8	1 0	130	29·1	21·94	169	120
D Crewe (Weston Lane)	L. M. & S. Rly. Co.	12	4 0	186	28·2	23·73	188	149
D Crewe (Isolation Hospital)	Leonard Reeves, Esq., C.E..	5	1 0	172	27·6	23·75	191	152
d Sandbach School	W. McDonald Porter, Esq. .	5	1 0	220	..	(21·93)	..	..
D Congleton (Sewage Works)	The Borough Surveyor.....	5	1 0	248	..	27·57	204	149
D Congleton (Buglawton Sch.) *new g*	Weaver Navigation Trustees	8	1 0	347	..	27·03	193	139
D Congleton (Buglawton Vic.) *new g*	Weaver Navigation Trustees	8	1 0	307	30·5	27·43	195	141
D Tarporley (Tirley Garth Gdns.)	Mr. J. B. Allan.....	5	3 6	450	30·0	27·63	200	149
D Middlewich	I.C.I. (Alkali) Ltd.....	5	1 0	138	..	22·60	168	147
d Middlewich (Bostock Hall), *new g*	Cpt. W. H. France-Hayhurst	5	1 0	157	30·3	23·87	174	133
D Delamere (Linmere)	Forestry Commission	8	0 9	250	..	29·77	199	153
D Northwich (Sandiway, W.W.)	J. Birtwistle, Esq.....	8	1 0	163	..	28·19	209	150
D Northwich (Hunts Lock)	Weaver Navigation Trustees	8	1 0	47	30·0	24·38	197	139
D Northwich (Winnington)	I.C.I. (Alkali) Ltd.....	5	1 0	64	29·2	24·21	197	140
D Northwich (Lostock Gralam)	I.C.I. (Alkali) Ltd.....	5	1 0	75	..	24·74	208	141
3.—MERSEY LOWER & C. 142 sq. mi.								
Tarporley (Willington Hall)	Major C. W. Tomkinson....	5	1 0	220	29·4	26·23	184	150
D Mouldsworth	A. J. Robinson, Esq.....	5	1 0	145	..	26·67	190	144
D Ince Hall	Mrs. Park-Yates.....	5	1 0	95	..	28·92	199	150
D Hooton Waterworks	A. J. Robinson, Esq.....	5	1 6	97	30·3	27·07	196	133
D Willaston	H. Procter, Esq.	5	1 0	100	..	23·76	196	133
D Eastham	H. B. Vernon, Esq.....	5	1 0	100	31·9	27·70	191	133
D Crosshill Reservoir, *old g*	R. F. Baker, Esq.....	5	1 0	237	..	25·73	184	129
D Crosshill Reservoir, *new g*	R. F. Baker, Esq.....	5	1 0	212	..	25·85	184	128
D Prenton Waterworks	A. J. Robinson, Esq.....	5	1 6	91	28·1	29·06	167	139
D Rock Ferry (High School)	L. Davies-Shiel, Esq.....	5	1 0	100	..	24·61	185	123
D Birkenhead (Bidston Obs'y.)(+A)	The Director	8	1 0	198	27·9	24·56	181	129
D Birkenhead (Bidston Obs'y.)	....The Director	8	1 0	198	..	25·11	177	125
D Hoylake (Recreation Gd.)	The Surveyor	5	1 0	23	28·1	26·59	184	137
D Wallasey (Harrison Park)	Medical Officer of Health ...	5	1 0	57	29·7	26·30	181	132
4.—DEE. 127 sq. mi.								
D Eaton Hall Gardens	Mr. N. F. Barnes	5	1 0	72	26·9	24·35	197	142
D Eccleston	E. Wells, Esq.....	5	1 1	94	26·8	24·10	199	143
D Rowton (Holly Bank)	J. H. Salmon, Esq.....	5	1 5	213	27·3	22·68	172	133
D Chester (Sewage Disp. Wks.)	C. Greenwood, Esq., C.E. ..	6	1 2	16	..	20·72	179	124
D Chester (Waterworks)	C. Wilfrid Bennett, Esq.....	5	0 10	85	26·4	22·15	177	124
Burton	R. A. L. Billson, Esq.....	5	1 0	210	..	22·89	..	..
D Neston (Vine House)	H. F. Russell, Esq.....	5	1 0	111	27·4	23·82	190	129
D Heswall (St. Fillan's)	Capt. J. Deedes.....	5	1 0	40	..	27·09	226	140
D Heswall (Greta)	Dr. T. Guthrie.....	5	1 0	230	..	27·14	205	138
d West Kirby (Caldy Manor)	Mr. E. L. Barker.....	5	6 0	131	27·9	25·53	..	..
West Kirby (Hilbre House)	Egerton Macdona, Esq.....	5	0 9	25	27·8	26·62	..	..
D West Kirby (Monk's Way)	Miss G. S. Kirkby.....	5	1 0	113	28·9	25·49	193	133
D West Kirby (St. Andrew's Vic.)	The Rev. E. F. Robson ...	5	1 0	25	27·9	24·23	173	126
D West Kirby (Deeside Nursery)	H. Ward, Esq.....	5	1 6	45	..	26·76	186	142
SOUTH LANCASHIRE. (Area, 687 sq. mi.).								
1.—ALT & C. 103 sq. mi.								
d Litherland (Hatton Hill Pk.)	G. W. Ponsford, Esq., C.E...	5	1 0	59	..	28·03	..	..

§ Gauge over-exposed on Moor.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge Height of Rim above Ground.	Rain-gauge Height of Ground above Sea Level.	Aver-age Rain-fall.	1934. Rain-fall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	SOUTH LANCASHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—ALT & C.—(*con*).								
d	Ormskirk (Bickerstaffe P. Stn.)	C. Burton Ede, Esq., C.E.	5	1 2	128	33·2	30·99	(187)	(149)
d	Ormskirk (Springfield P. Stn.)	C. Burton Ede, Esq., C.E.	5	0 11	70	33·1	29·28	(192)	(149)
D	Formby (The Dunes)	J. Harold Coney Esq.	5	0 9	30	29·8	27·38	203	146
	2—MERSEY, LOWER. 240 sq. mi.								
D	Garston, *new g*	Liverpool Corporation	5	1 0	81	30·7	28·71	192	136
D	Garston (Grassendale Park)	A. G. Isaacson, Esq.	5	1 0	30	30·1	25·95	191	132
d	Aigburth (Beech Lawn)	T. H. Edwards, Esq.	8	1 0	120	30·0	(27·96)	(195)	(139)
D	Liverpool (Lark Lane)	Liverpool Corporation	5	9 1	90	..	27·38	182	138
D	Liverpool (Smithdown Road)	Liverpool Corporation	5	1 0	135	31·7	28·59	193	151
D	Liverpool (Monument Pl.) (+A)	Liverpool Corporation	5	1 3	124	..	28·40	189	133
D	Liverpool (Rathbone Road)	Liverpool Corporation	5	1 0	198	34·3	30·60	195	145
D	Liverpool (Breckside Park)	Liverpool Corporation	5	0 9	132	33·2	27·97	199	146
D	Liverpool (Queens Drive)	Liverpool Corporation	5	1 0	119	33·3	30·62	210	139
D	Warrington (Howley Yard)	The Borough Surveyor	10	5 1	26	..	27·43	170	135
d	Irlam (Sewage Works)	The Engineer	5	1 0	42	..	28·65	..	136
D	Winwick P. Stn.	Warrington W.W.	5	1 0	115	..	29·59	192	148
D	St. Helens (Eccleston Hill)	A. P. Statham, Esq., C.E.	12	1 0	265	33·6	30·34	199	142
D	St. Helens (Victoria Park)	Dr. F. Hauxwell	8	1 5	160	33·9	32·83	238	147
d	Earlestown (Newton Cemetery)	T. E. Clough, Esq.	5	1 0	75	33·6	28·66	..	..
D	Leigh (Sewage Works) (+A)	D. Ledson, Esq.	5	1 0	67	32·6	28·71	196	151
	3.—MERSEY—Irwell. 299 sq. mi.								
D	Stretford (Sewage Farm)	Stretford U.D.C.	5	1 1	65	..	28·99	204	152
D	Stretford (Longford Yard)	Stretford U.D.C.	8	1 1	87	..	29·98	205	147
D	Manchester (Hullard Park)	Stretford U.D.C.	8	1 1	100	32·4	31·96	193	166
D	Manchester (Old Trafford)	Stretford U.D.C.	8	1 1	107	..	28·92	204	143
D	Urmston (Sew. Wks., Davyhulme)	Manchester Cor., Rivers Dpt.	8	1 0	72	30·9	29·89	191	155
D	MANCHESTER (BARTON AERO.) (+A)	Meteorological Officer	8	1 0	70	..	29·91	200	160
D	Patricroft (Eccles Sewage Wks.)	C. J. Girling, Esq.	5	1 0	72	30·3	28·34	207	148
d	Eccles (Cavendish Grove)	T. G. Barlow, Esq.	6	1 6	91	..	30·00	(192)	(156)
d	Manchester (Godlee Obs'y.)	The Curator	8	1 3	130	..	27·56	..	..
D	MANCHESTER (OLDHAM ROAD)	Medical Officer of Health	5	1 0	191	34·3	29·31	209	153
D	MANCHESTER (WHITWORTH PARK)	Manchester University	8	1 5	125	31·7	28·77	197	143
D	Ashton-und.-Lyne (Knott H. Res.)	M. T. B. Whitson, Esq., C.E.	8	1 0	605	..	34·47	224	164
D	Prestwich Sewage Works	H. T. Ainsworth, Esq., C.E.	8	0 10	150	36·6	32·44	200	159
	Prestwich Res., *new g, new site*	Manchester Corpn. W.W.	5	1 0	357	..	32·83	..	..
D	Prestwich (Heaton Park)	Manchester Corporation	8	1 0	312	36·8	32·48	201	156
	Prestwich (Heaton Park Res.)	Manchester Corpn. W.W.	5	1 0	355	37·1	32·71	..	..
D	Oldham Gas Works	Ernest Parry, Esq., C.E.	5	5 9	602	39·0	40·14	217	182
D	Oldham (Brushes Clough) No. 3	C. J. Batley, Esq., C.E.	5	1 0	921	46·7	42·43	211	179
D	Royton (Public Park)	The Engineer and Surveyor.	5	1 0	502	..	37·31	217	181
D	BOLTON (Queen's Park) (+A)	The Corpn. (E. Hendy)	5	1 0	342	43·1	41·97	216	164
d	Bolton (L.M.S.R.) No. 1	L. M. & S. Rly. Co.	5	1 0	299	..	41·60	(212)	(161)
D	Bolton (Heaton Reservoir)	Bolton Corporation W.W.	5	1 0	500	43·5	41·28	208	174
	Bolton W.W. (Harpers Farm)	Bolton Corporation W.W.	5	1 0	872	..	44·35	..	..
D	Bolton (Bloomfield, Heaton)	Mrs. F. Taylor, J.P.	5	1 0	530	43·1	41·43	238	164
D	Bolton (Smithills Hall)	Nigel V. Ainsworth, Esq.	8	1 2	510	46·1	46·25	206	174
D	Bury (L.M.S.R.) No. 5	L. M. & S. Rly Co.	5	1 0	294	..	39·52	255	170
D	Bury (Parsons Lane)	Bury Water Board	8	9 8	316	42·4	40·13	208	168
D	Bury (Bridge Hall)	Miss C. Wrigley	8	1 0	..	42·2	39·05	214	173
D	Bradshaw (Sewage Works)	Turton U.D.C.	5	1 0	329	43·0	43·09	203	166
D	New Hey (Sewage Works)	Mr. J. B. Ogden	5	1 0	514	41·6	39·98	205	177
D	Milnrow (Butterworth Hall)	C. J. Batley, Esq., C.E.	5	1 0	512	43·8	42·85	215	181
D	Milnrow (Piethorne, Kitcliffe)	C. J. Batley, Esq., C.E.	5	1 0	766	..	43·53	216	186
D	Milnrow (Piethorne, Coldgreave)	C. J. Batley, Esq., C.E.	5	1 0	832	46·3	44·15	216	186
D	Rochdale (Roch Mills Sew. Wks.)	S. H. Morgan, Esq., C.E.	8	1 1	363	44·5	36·76	214	165
D	Rochdale (Broadfield Pk. Obsy.)	Medical Officer of Health	8	1 0	472	43·9	34·61	221	171
D	Rochdale (Fieldhead Yard)	S. H. Morgan, Esq., C.E.	8	1 0	473	44·8	40·03	214	167
D	Rochdale (Ashworth Moor Res.)	Heywood Water Board	5	1 2	956	..	40·41	204	173
	Bolton (Egerton House) *old g*	E. H. Ashworth, Esq.	5	1 0	633	49·6	49·95	..	..
	Bolton (Egerton House) *new g*	E. H. Ashworth, Esq.	5	1 0	633	48·8	49·86	..	..
D	Bury (Gin Hall) No. 1	Bury Water Board	8	1 0	475	43·7	38·46	215	163
D	Bury (Gin Hall) No. 2	Bury Water Board	8	1 0	475	44·5	40·15	215	165
w	Bolton (Smithills Moor)	N.V. Ainsworth Esq.	5	1 0	1375	..	54·21	..	..
	Bolton (Smithils Moor) *new site*	N. V. Ainsworth Esq.	5	1 0	1350	..	57·05	..	..

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	SOUTH LANCASHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—MERSEY—Irwell.—(*con.*).								
D	Bolton W.W. (Springs)	No. 2. Bolton Corporation W.W.	5	1 0	810	54·5	56·37	227	182
	Bolton W.W. (Eagley)	No. 4. Bolton Corporation W.W.	5	1 0	546	52·3	55·54	..	..
M	Bolton W.W. (Hordern)	Bolton Corporation W.W.	5	1 0	1160	53·6	54·18	..	..
	§Bolton W.W. (Delph)	Bolton Corporation W.W.	5	1 0	710	51·2	54·07	..	..
M	Bolton W.W. (Longworth)	Bolton Corporation W.W.	5	1 0	770	52·4	54·89	..	..
	Bolton W.W. (Wayoh)	No. 3. Bolton Corporation W.W.	5	1 0	608	51·6	51·78	..	..
	§Bolton W.W. (Holden's Farm)	Bolton Corporation W.W.	5	1 0	955	52·1	57·21	..	..
	Bolton W.W. (Top-o'-th'-Brow)	Bolton Corporation W.W.	5	1 0	935	55·2	56·81	..	..
D	Bolton W.W. (Entwistle)	No. 2. Bolton Corporation W.W.	5	1 0	692	53·2	53·55	239	177
	Bolton W.W. (Bromiley Heys)	Bolton Corporation W.W.	5	1 0	925	51·5	53·93	..	..
	§Bolton W.W. (Hulton Pasture)	Bolton Corporation W.W.	5	1 0	1130	49·7	50·45	..	..
	§Bolton W.W. (Moorside)	Bolton Corporation W.W.	5	1 0	850	50·2	49·92	..	..
	Bolton W.W. (Clough)	No. 2. Bolton Corporation W.W.	5	1 0	1025	55·0	55·79	..	..
	Bolton W.W. (Cranberry Moss)	.2. Bolton Corporation W.W.	5	1 0	982	53·0	54·27	..	..
M	Bolton W.W. (Slater Lane)	Bolton Corporation W.W.	5	1 0	985	51·8	48·04	..	..
	Bolton W.W. (Brown Lowe)	Bolton Corporation W.W.	5	1 0	1200	51·8	54·57	..	..
	Bolton W.W. (Longshoot)	Bolton Corporation W.W.	5	1 0	930	..	53·77	..	..
	Bolton W.W. (Uglow)	No. 2. Bolton Corporation W.W.	5	1 0	1090	51·1	51·18	..	..
D	Rochdale (Hamer Pasture Res.)	Rochdale Corporation W.W.	5	1 0	760	48·6	43·81	232	181
D	Rochdale (Naden Filters)	Heywood Water Board	5	1 0	761	..	44·66	206	166
M	Norden (Higher Red Lumb)	Heywood Water Board	5	1 3	1125	..	40·57	..	..
w	Norden (Far Knowl Farm)	Heywood Water Board	5	0 10	..	47·2	46·97	..	..
w	Rochdale (Naden Dean) *old g*	Heywood Water Board	5	1 4	948	..	38·08	..	..
w	Rochdale (Naden Dean) *new g*	Heywood Water Board	5	1 4	948	..	40·79	..	..
D	Littleborough (Longden End)	C. J. Batley, Esq., C.E.	5	1 0	751	47·4	43·88	217	185
D	Littleborough (Hollngwrth Lke)	C. J. Batley, Esq., C.E.	8	1 0	610	40·6	37·53	213	178
d	Littleborough (Broadhead)	C. J. Batley, Esq., C.E.	8	1 0	1337	..	38·18	..	..
d	Littleborough (Blackstone Edge)	C. J. Batley, Esq., C.E.	8	1 0	1268	45·0	41·38	..	..
D	Littleborough (Uppr. Chelburn.)	C. J. Batley, Esq., C.E.	8	1 0	725	47·5	43·43	230	184
D	Littleborough (Chelburn)	C. J. Batley, Esq., C.E.	8	1 0	700	..	37·30	230	173
M	Ramsbottom (Killgate Brook)	Heywood Water Board	5	1 0	978	..	45·36	..	..
d	Ramsbottom (L.M.S.R.)	No. 3. L. M. & S. Rly. Co.,	5	0 11	418	47·7	48·23	..	..
M	Ramsbottom (Cheesden Barn)	Heywood Water Board	5	1 0	997	..	42·49	..	..
D	Edenfield (Rochdale Rd.)	Bury Water Board	5	1 0	665	..	48·96	217	178
D	Edenfield (New Hall Nurseries)	Bury Water Board	5	1 0	755	..	49·73	216	173
D	Edenfield (Scout Moor Res.)	No. 2. Bury Water Board	8	1 0	1275	..	50·98	226	181
D	Waterfoot (Cragg Reservoir) *new site*	Bacup Boro' Council	5	1 0	1325	..	52·73	244	188
D†	Waterfoot (Cowpe Reservoir) *new site*	Bacup Boro' Council	5	1 0	925	..	55·27	244	185
D	Rochdale (Spring Mill Whitworth)	Rochdale Corporation W.W.	5	1 0	720	51·5	48·59	212	181
D	Wardle (Watergrove Mill)	Rochdale Corporation W.W.	5	1 0	775	..	49·47	211	189
D	Rochdale (Cowm, Whitworth)	Rochdale Corporation W.W.	5	1 0	762	51·5	54·79	211	201
D	Helmshore (Clough House)	A. C. Cullen, Esq.	5	1 0	650	50·3	51·51	228	175
D	Haslingden (Holden Wood)	No. 1. Bury Water Board	8	1 0	670	52·1	53·38	211	178
D	Haslingden (Holden Wood)	No. 2. Bury Water Board	8	1 0	670	51·4	50·12	212	183
D	Haslingden (Calf Hey)	No. 1. Bury Water Board	8	1 0	800	50·9	55·49	211	182
D	Bacup (Sheephouse Res.) *new site*	Bacup Boro' Council	5	1 0	975	..	50·99	227	175
D	Bacup (LM.S.R.)	No. 4. L. M. & S. Rly. Co.	5	1 0	875	..	48·62	229	189
D	Rawtenstall Cemetery	J. Johnson, Esq.	8	1 1	572	49·1	47·78	196	175
D	Haslingden (L.M.S.R.)	No. 2. L. M. & S. Rly. Co.	5	1 0	715	..	49·62	190	160
D	Rawtenstall (Cloughbottom)	No. 1. Bury Water Board	8	1 0	1025	46·7	47·35	216	190
D	Rawtenstall (Hapton Res.)	No. 1. Bury Water Board	8	1 0	930	48·7	51·73	204	188
D	Rawtenstall (Hapton Res.)	No. 2. Bury Water Board	8	1 0	930	50·6	55·73	204	188
	4.—MERSEY, UPPER. 45 sq. mi.								
D	Didsbury (Linden Road)	L. G. King, Esq.	8	1 6	110	31·0	27·72	196	141
d	West Didsbury (Town Hall)	(R). Manchester Corporation	8	7 6	121	29·2	23·80	..	131
D	Northenden Sewage Wks.	Manchester Cor., Rivers Dpt.	8	1 0	81	..	27·32	193	138
D	Chorlton-cum-Hardy Sew. Works	Manchester Cor., Rivers Dpt.	8	1 0	95	30·5	27·40	190	148
D	Fallowfield (Platt Field Park)	Manchester Corporation	8	1 0	118	30·6	27·48	193	141
	Denton Reservoir, *new g*	Manchester Corpn. W.W.	5	1 0	306	..	30·70	..	..
	Gorton Reservoir, *new g*	Manchester Corpn. W.W.	5	1 0	263	..	31·89	..	..
D	Ashton-u-Lyne (Henrietta St. Yd.)	M. T. B. Whitson, Esq., C.E.	7	1 0	394	37·2	32·42	209	161
D	Lower Swineshaw Reservoir	M. T. B. Whitson, Esq., C.E.	8	1 6	884	43·6	40·40	215	177
	Swineshaw Moor	M. T. B. Whitson, Esq., C.E.	5	1 0	1340	44·9	42·65	..	..
D	Mossley (Manor House Yard)	M. T. B. Whitson, Esq., C.E.	5	1 0	636	41·5	32·56	211	168

†Gauge over-exposed on Moor. § Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	CENTRAL LANCASHIRE. (Area, 536 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—RIBBLE & C. 326 sq. mi.								
	Darwen (Spring Bank)	T. Anderton, Esq.	5	1 0	710	..	52·80	..	..
D	Darwen (Sunnyhurst Hey Res.)	E. Marsden, Esq., C.E.	8	1 0	915	49·5	48·25	222	176
D	Darwen (Earnsdale Reservoir)	E. Marsden, Esq., C.E.	8	1 0	705	47·4	50·10	222	181
D	DARWEN (Bold Venture Park)	Medical Officer of Health	8	1 1	724	50·1	52·04	232	181
D	Darwen (Hoddlesden)	No. 1. W. Pickstone, Esq., C.E	8	1 6	680	49·1	49·47	210	184
D	Darwen (Daisy Green)	No. 1. W. Pickstone, Esq., C.E.	8	1 6	969	46·6	46·47?	211	177
D	Darwen (Pickup Bank)	No. 1. W. Pickstone, Esq., C.E.	8	1 6	720	46·8	41·27?	212	173
D	Withnell	No. 2. L. C. King-Wilkinson, Esq.	5	1 3	535	..	38·57	206	163
D	Brindle (Whiteholme)	Mrs. Victor H. Gatty	5	1 0	315	39·3	37·64	195	162
D	Haslingden (Mitchell's Ho. Res.)	A. J. Harrison, Esq.	5	1 6	950	..	45·27	224	177
D	Haslingden (Mitchell's Ho. Res.)	No. 2. A. J. Harrison, Esq.	5	1 6	984	..	41·33	221	175
D	Blackburn (Guide Reservoir)	W. Pickstone, Esq., C.E.	8	1 6	610	44·9	42·81	211	179
D	Blackburn (Witton)	W. Pickstone, Esq., C.E.	8	1 6	315	42·0	36·01	201	161
D	Blackburn (Fever Hosp.)	W. Pickstone Esq., C.E.	6	1 6	570	..	41·88	230	173
D	HUTTON (Lancs. C.C. Hort. Stat.)	The Director of Education	5	1 0	82	..	35·10	195	155
D	St. Anne's-on-Sea (South Side)	Dr. J. P. Litt	5	1 0	25	31·4	31·65	187	145
D	Accrington (Oak Hill Park). (+A)	The Borough Engineer	5	1 0	645	..	42·32	202	171
D	Preston (Moor Park) (+A)	Preston Corporation	8	1 0	110	35·3	37·77	209	161
D	Samlesbury Sewage Works	W. Pickstone, Esq., C.E.	8	1 6	240	36·9	35·52	200	159
w	Causeway Side (Burnley W.W.)	J. Shepherd, Esq.	8	1 0	1116	41·7	43·05	..	..
w	Sheddin (Burnley W.W.)	J. Shepherd, Esq.	8	1 0	960	41·9	42·71	..	..
D	Cant Clough S. Side (Burnley W.W.)	J. Shepherd, Esq.	8	1 0	900	42·3	42·81	223	180
D	Cant Clough N. Side (Burnley W.W.)	J. Shepherd, Esq.	8	1 0	900	41·5	43·25	223	180
D	Huncoat (Burnley Road Res.)	A. J. Harrison, Esq.	9	1 6	620	43·0	41·07	210	162
D	Huncoat (Burnley Rd. Res.) *new g.*	A. J. Harrison, Esq.	5	1 0	624	..	40·02	210	169
D	Wilpshire (Brooklyn Road)	H. W. Apperley, Esq	5	1 0	408	40·7	39·28	210	170
D	Great Harwood (Parsonage Res.)	W. Pickstone, Esq., C.E.	8	1 0	631	40·7	42·02	212	161
D	Great Harwood (Dean Clough)	A. J. Harrison, Esq.	12	1 6	540	45·6	44·85	211	177
D	BURNLEY (Queen's Park)	Medical Officer of Health	8	1 0	458	..	39·47	216	162
D	Burnley (Swinden) *Upper g*	J. Shepherd, Esq.	8	12 0	820	43·6	45·35	234	178
D	Burnley (Swinden) *Lower g*	J. Shepherd, Esq.	8	1 0	745	44·3	45·35	234	178
D	Padiham (Altham Sew. Works) (+A)	H. Russell, Esq., C.E.	5	1 0	225	40·9	37·31	199	166
d	Padiham (Gawthorpe Hall)	Lord Shuttleworth	8	1 0	282	40·7	37·10	..	154
D	Padiham (Huntroyde)	E. G. Howsin, Esq.	5	1 0	423	41·1	40·01	204	164
D	Alston Reservoir	E. C. Oakes, Esq., C.E.	8	1 2	320	41·0	40·27	212	162
D	Nelson (Coldwell Res.) *S.*	No. 2. Nelson Corporation W.W.	5	1 0	960	46·3	48·50	240	178
D	Nelson (Victoria Park)	Nelson Corporation W.W.	5	1 0	375	41·8	41·19	188	166
D	Nelson (Walton Lane) (+A)	J. W. Ingham, Esq.	5	1 0	540	..	39·20	197	157
D	STONYHURST (College) (+A)	The Director	8	1 10	377	46·5	44·40	216	161
D	Cowley Brook (Preston W.W.)	E. C. Oakes, Esq., C.E.	8	1 2	616	..	49·47	222	181
D	Spade Mill (Preston W.W.)	E. C. Oakes, Esq., C.E.	8	1 2	400	41·7	40·23	216	162
M	Jeffery Hill (Preston W. W.)	E. C. Oakes, Esq., C.E.	8	1 6	900	47·3	54·19	..	..
D	Sabden (Whins House)	Miss Foster	5	1 0	500	41·1	40·91	201	162
D	Sabden (Churn Clough Res.)	H. Russell, Esq., C.E.	5	1 0	790	41·2	45·66	234	172
w	Sabden (Craggs Dole)	H. Russell, Esq., C.E.	8	1 0	1050	46·0	45·83	..	..
w	Newchurch (Cock Dole)	H. Russell, Esq., C.E.	5	1 0	1090	47·0	45·33	..	..
D	Barley (Ogden Reservoir)	Nelson Corporation W.W.	5	1 6	950	46·0	48·51	212	174
D	Pendle Hill (Buttock)	Nelson Corporation W.W.	5	1 0	1175	..	51·27	212	175
D	Colne (Swinden Sew. Works)	T. H. Hartley, Esq.	5	1 0	423	42·0	40·40	192	158
	Colne (Cemetery)	T. H. Hartley, Esq.	6	3 0	525	..	37·91	..	..
	Barrowford Reservoir	Leeds & Liverpool Canal Co.	8	1 0	473	41·0	42·09	..	..
	Foulridge (Upper Reservoir)	Leeds & Liverpool Canal Co.	8	1 0	582	40·5	38·49	..	..
	Foulridge (Reedy Moor)	Leeds & Liverpool Canal Co.	5	1 0	553	..	35·83	..	..
D	Chatburn School	E. P. Aldersley, Esq.	5	0 11	322	43·0	43·58	225	165
	Clitheroe (Downham Hall)	R. C. Assheton, Esq.	5	1 6	464	..	40·35	..	..
	2.—RIBBLE—Douglas. 156 sq. mi.								
D	Wigan W.W. (Billinge Higher End)	The Borough Engineer	5	1 0	374	..	33·22	196	153
D	Orrell (Upholland Gram. Sch.)	The Headmaster	5	1 0	320	35·5	30·70	193	149

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in or more.
CENTRAL LANCASHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—RIBBLE—Douglas—(*con.*).								
D Wigan W.W. (Worthington)	The Borough Engineer	5	1 0	225	35·4	33·63	191	156
D Horwich (Lower Rivington)	Lt.-Col. F. Hibbert, C.E.	5	1 0	440	38·7	36·85	199	164
w Horwich (Lower Knoll)	Lt.-Col. F. Hibbert, C.E.	8	1 4	742	41·2	38·24	..	..
w§Rivington (Brown Hill)	Lt.-Col. F. Hibbert, C.E.	8	1 6	844	..	41·48	..	..
w Rivington (Brown Hill) *new g*	Lt.-Col. F. Hibbert, C.E.	5	1 0	727	..	42·52	..	..
D Rivington (Stoneshouse)..No. 1	Lt.-Col. F. Hibbert, C.E.	10	1 4	629	..	40·59	217	165
D Rivington (Stoneshouse) *new g.* No. 2	Lt.-Col. F. Hibbert, C.E.	5	1 0	607	..	40·79	221	165
w Rivington (Stoneshouse)..No. 3	Lt.-Col. F. Hibbert, C.E.	8	1 4	629	..	39·30	..	..
w§Rivington (Hurst Hill)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1029	..	46·73	..	..
w§Rivington (Great Hill)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1240	..	48·91	..	..
w§Rivington (Coppice Stile)	Lt.-Col. F. Hibbert, C.E.	8	1 0	879	..	40·17	..	..
w Rivington (Gamekeeper's)	Lt.-Col. F. Hibbert, C.E.	8	1 1	850	45·4	43·85	..	..
w Roddlesworth	Lt. Col. F. Hibbert, C.E.	5	1 0	725	..	43·92	..	..
D Chorley (Com. Bk. Sew. Wks.)	J. Slater, Esq.	5	1 0	179	..	32·64	189	151
D Leyland (Worden Hall) (+A)	H. Nowell ffarington, Esq.	5	1 0	125	34·9	34·81	204	153
w§Darwen (Higher Hill)	Lt.-Col. F. Hibbert, C.E.	8	1 6	733	..	39·20	..	..
D Bamber Bridge (Cuerden Hall)	J. Alleyne Robinson, Esq.	5	1 0	230	35·7	34·65	193	158
3.—COAST STREAMS. 52 sq. mi.								
D Southport (Bedford Rd. Park)	The Corpn. (J. Baxendell)	5	1 0	35	32·0	30·68	188	143
D Southport (Hesketh Park) (+A)	The Corpn. (J. Baxendell)	8	1 0	37	32·0	30·70	203	150
4.—OUSE—Aire. 2 sq. mi.								
d§ Watersheddles Reservoir	J. Noel Wood, Esq., M.C., C.E.	5	1 0	1115	48·4	47·82	(227)	(186)
d Watersheddles Res. ...No. 2.	J. Noel Wood, Esq., M.C., C.E.	5	1 0	1115	..	49·48	(227)	(185)
Foulridge (Canal Office)	Leeds & Liverpool Canal Co.	8	1 0	497	43·5	38·66	..	..
NORTH LANCASHIRE. (Area, 609 sq. mi.)								
1.—DUDDON & C. 77 sq. mi.								
D Barrow-in-Furness (Sewage Wks.)	W. C. Persey, Esq., C.E.	5	1 0	20	39·3	40·97	240	172
D Barrow-in-Furness (Risedale C. Sch.)	The Headmaster	5	1 0	55	..	39·40	205	161
D Little Urswick (North View)	J. Dobson, Esq.	5	1 6	130	44·4	49·49	222	179
D Ulverston (Poaka Beck)	Claude Diamond, Esq.	11	1 6	512	52·1	53·69	212	193
D Ulpha	Claude Diamond, Esq.	11	1 6	251	..	63·71	249	198
d Duddon Valley (Seathwaite Sch.)	The Headmistress	5	1 0	348	77·8	85·62	..	..
w Duddon Val. (Seathwaite Tarn)	Claude Diamond, Esq.	11	1 6	1221	92·7	101·88	..	..
2.—LEVEN & C. 135 sq. mi.								
D Cartmel (Holker Hall)	Lord Richard Cavendish	5	1 0	85	44·5	48·92	223	174
D Ulverston (Pengwerne)	C. J. Chapman, Esq.	5	1 4	138	50·1	51·05	238	191
Rusland Hall	C. F. Archibald, Esq.	5	1 0	25	..	66·02	234	192
Cartmell Fell (Ghyll Head Res.) 4	J. N. Leckie, Esq.	8	1 0	425	63·1	65·44	..	..
D Coniston (Thwaite Cottage)	J. B. Cohen, Esq.	5	1 0	160	..	88·81	225	197
d Coniston (Holywath)	Mrs. Hext	8	0 9	250	..	99·59	(216)	(204)
D Hawkshead (Low House, Sawrey)	Mrs. W. H. Baines	5	1 0	342	65·3	74·79	239	216
d Hawkshead (Foundation Sch.)	The Headmaster	5	0 7	214	71·1	80·73	..	..
d Hawkshead (Bettyfold)	H. T. Gnosspelius, Esq.	5	1 0	500	78·0	80·71	..	..
D Hawkshead Hill	Miss R. E. Sugden	5	1 0	600	..	86·07	225	205
D Ambleside (Skelwith Fold)	Miss C. Marshall	5	1 0	383	81·0	81·33	226	..
3.—KENT & C. 45 sq. mi.								
d Heysham Harbour	L. M. & S. Rly Co.	5	1 6	25	34·7	37·42	..	..
D Morecambe	The Chief Sanitary Inspector	8	1 0	23	37·0	38·98	204	161
D Hest Bank (Greendale)	W. Watson, Esq.	5	1 6	97	..	39·17	192	149
D Hest Bank (Hatler Drive)	R. Rhodes, Esq.		..	..	..	39·55	201	151
D Yealand Conyers (Beechfield)	Miss E. Roper	5	1 0	250	..	40·38	203	161
D Yealand Conyers (Morecambe Lo.)	J. Rawlinson Ford, Esq.	5	1 0	278	42·9	49·65	248	177
Grange-over-Sands (Nutwood)	J. Steen, Esq.	5	1 0	140	45·0	48·00	..	..
D Lindale (Ellerhow)	Lady Tomlinson	5	1 5	300	51·4	53·65	212	169

§ Gauge over-exposed on Moor.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
NORTH LANCASHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—LUNE. 135 sq. mi.								
D **Hampson-in-Ellel**	John Welch, Esq.	5	1 0	145	38·3	40·58	196	162
Bowland Forest (High Salter)	J. T. Sanderson, Esq.	5	1 0	974	..	60·83	..	..
Bowland Forest (Whitray)	J. T. Sanderson, Esq.	5	1 0	1139	57·5	56·63	..	..
Bowland Forest (Lower Salter)	J. T. Sanderson, Esq.	5	1 0	572	52·8	59·02	..	..
D **Lancaster** (The Friends School)	G. A. Watson, Esq.	5	1 0	55	36·2	37·20	192	158
D **Lancaster** (Blea Tarn Res.)	F. Hill, Esq., C.E.	8	1 0	330	..	41·63	223	163
D LANCASTER (Greg Obsy.) (+A)	The Corpn. (N. Holden, F.R.A.S.)	8	1 0	312	40·7	42·87	204	166
D **Lancaster** (Lune Aqueduct)	L. M. & S. Rly. Co.	8	1 0	74	38·4	40·09	184	163
D Caton (Escowbeck House)	J. Howorth Massey, Esq.	5	1 0	150	..	45·21	207	171
D Wray (Wray House)	Baldwin Bent, Esq,. C.E.	5	1 0	170	..	44·16	207	160
D Wennington (Tatham Rectory)	Rev. A. S. Roberts	5	1 3	150	40·9	40·97	178	151
5.—WYRE & C. 213 sq. mi.								
D Weeton Reservoir (No. 1)	Fylde Water Board	5	1 0	133	36·6	38·17	186	160
D BLACKPOOL (Met. Observatory)	Medical Officer of Health	5	1 0	67	33·4	37·50	212	152
D **Barton** (Newsham House)	W. B. S. Smith, Esq.	5	1 0	104	38·2	40·26	201	162
D Kirkham (Elswick Lodge)	L. G. King, Esq.	5	1 4	52	35·0	35·78	178	148
D St. Michael's-on-Wyre	Ven. Archdeacon Hornby	5	1 0	26	36·0	37·40	199	158
D Fleetwood	Engineer and Survevor	8	2 6	27	33·4	37·23	203	145
D FLEETWOOD (Memorial Park)	The Borough Council	5	1 0	21	..	38·89	204	154
D Garstang (Barnacre Reservoir)	Fylde Water Board	5	1 0	616	45·7	47·91	202	167
D Garstang (Grizedale Reservoir)	Fylde Water Board	5	1 0	517	43·6	44·50	198	164
Garstang (Calder Intake)	Fylde Water Board	5	1 0	632	46·6	47·93	..	..
Garstang (Grizedale Intake)	Fylde Water Board	5	1 0	644	46·6	47·36	..	..
D Wyresdale (Abbeystead Res.)	F. Hill, Esq., C.E.	5	1 0	366	47·9	51·79	218	184
D Abbeystead Gardens	Mr. Geo. Penk	5	1 0	420	50·1	54·37	230	186
M Quernmore (Old Gauge Basin)	F. Hill, Esq., C.E.	8	1 0	963	46·1	53·79	..	..
M Wyresdale (Wardstone)	F. Hill, Esq., C.E.	8	1 0	1440	..	63·07	..	..
6.—INSULAR. 4 sq. mi.								

DIVISION IX—YORKSHIRE.

WEST RIDING. (Area, 2,791 sq. mi.)								
1.—LUNE. 178 sq. mi.								
D Austwick (Town Head)	T. Gordon Esq.	5	1 0	525	..	42·69	214	183
D Austwick (Beck House)	Rev. J. Turner	5	1 1	475	44·3	39·60	227	178
D Clapham (Newby)	J. Pillar, Esq.	5	0 8	550	..	42·27	218	182
d High Bentham (Inglefield)	Geoffrey Holmes, Esq.	5	1 0	412	..	40·46	212	167
D Sedbergh (Brigflatts)	The Misses Wilson	5	1 0	305	53·0	57·17	223	175
D Sedbergh (The Leyes)	Rev. A. J. K. Martyn	5	1 0	400	..	59·81	212	184
D Sedbergh (Havera Bank)	A. Mountain, Esq.	5	1 0	450	56·1	58·14	226	186
2.—RIBBLE. 225 sq. mi.								
D Colne (Lower Coppy)	J. F. Bedford, Esq., C.E.	5	1 7	975	..	39·15	198	173
D Colne (Laneshaw Res.)	J. F. Bedford, Esq., C.E.	5	1 9	795	..	37·46	209	162
D Barnoldswick (Rainhall Road)	Asa Burniston, Esq.	5	1 0	549	38·1	36·83	211	160
Barnoldswick (Greenberfield L.)	Leeds & L'pool Canal Co.	8	1 0	488	41·5	37·36	..	..
D Slaidburn (Hareden Valley)	E. C. Oakes, Esq., C.E.	8	1 2	556	68·3	70·92	241	184
D **Slaidburn** (Langden Brook)	E. C. Oakes, Esq., C.E.	8	1 2	556	68·6	74·32	242	190
D Slaidburn (Dunsop Houses)	W. Pickstone, Esq., C.E.	8	1 6	450	62·9	64·78	201	182
D Slaidburn (Footholme)	W. Pickstone, Esq., C.E.	8	1 6	565	62·2	65·23	196	173
M Slaidburn (Middle Knoll)	W. Pickstone, Esq., C.E.	5	1 0	1288	67·5	69·05	..	..
D Slaidburn (Brennand)	W. Pickstone, Esq., C.E.	8	1 6	820	68·3	68·50	196	181
D Slaidburn (Croasdale House)	W. Pickstone, Esq., C.E	8	1 6	600	51·0	48·95	204	173
D Slaidburn (Croasdale Valley)	W. Pickstone, Esq., C.E.	8	1 6	720	..	62·39	203	181
D Slaidburn (Whitendale)	W. Pickstone, Esq., C.E.	8	1 6	830	70·0	69·74	197	185
M Slaidburn (Cabin Hill)	W. Pickstone, Esq., C.E.	5	1 0	1559	63·0	69·70	..	..
M Slaidburn (Baxton Fell)	W. Pickstone, Esq., C.E.	5	1 0	1525	75·8	79·80	..	..
D **Settle** (Cappleside)	Mrs. Geldard	5	0 10	500	49·9	49·26	230	185
D **Settle** (Gas Works)	J. W. Shepherd, Esq.	8	3 0	450	43·9	43·03	207	165
D Settle (GIGGLESWICK School)	The Headmaster	8	1 0	575	..	39·76	199	171
Horton-in-Ribblesdale	Nathaniel Hunt, Esq.	5	1 0	800	52·2	49·34	..	..
3.—MERSEY—Irwell. 2 sq. mi.								

DIVISION IX—YORKSHIRE—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—MERSEY, UPPER. 35 sq. mi.								
D	Greenfield (Chew Mount)	M. T. B. Whitson, Esq., C.E.	5	1 0	1578	50·7	46·04	227	173
	Greenfield (Chew Reservoir)	M. T. B. Whitson, Esq., C.E.	5	1 0	1648	..	51·95	..	..
D	Greenfield (Sewage Disp. Wks.)	The Manager	5	1 1	505	..	40·47	214	172
D	Greenfield (Yeoman Hey)	M. T. B. Whitson, Esq., C.E.	5	1 0	784	49·1	41·41	206	183
	Greenfield (Ashway Moss)	M. T. B. Whitson, Esq., C.E.	5	1 0	1581	..	41·20	..	..
	Greenfield (Birchen Clough)	M. T. B. Whitson, Esq., C.E.	5	1 0	1018	51·4	46·19	..	..
	Greenfield (Upperwood Moor)	M. T. B. Whitson, Esq., C.E.	5	1 0	1518	..	42·08	..	..
	Saddleworth Station	L. M. & S. Rly. Co.	5	1 0	550	..	43·12	..	..
D	Oldham (Strinesdale) *new g*	C. J. Batley, Esq., C.E.	5	1 0	791	44·7	40·08	211	170
D	Standedge (Cas Shaw Broadh'd) *new*	C. J. Batley, Esq., C.E.	8	1 0	957	51·5	49·93	229	194
M	Standedge (Redbrook Res.)	L. M. & S. Rly. Co.	5	1 0	1150	..	45·09	..	..
D	Denshaw C.E. School	The Head Teacher	8	1 1	870	..	53·21	215	189
D	Denshaw (Ox Hey) *new g*	C. J. Batley, Esq., C.E.	8	1 0	1031	48·9	45·91	220	183
D	Denshaw (Crawshaw Hey)	C. J. Batley, Esq., C.E.	8	1 0	956	48·5	46·11	220	186
D	Denshaw (New Year's Br.) *new g*	C. J. Batley, Esq., C.E.	8	1 0	986	..	44·43	220	186
	5.—TRENT—Derwent. 7 sq. mi.								
D	Burbage (Parsons House)*	Sheffield Corporation W.W.	8	1 0	1309	..	32·14	197	160
	Burbage (Higger Lodge)*	Sheffield Corporation W.W.	5	1 0	1225	36·8	33·10	..	..
	Burbage (Upper Burbage)*	Sheffield Corporation W.W.	5	1 0	1364	36·1	36·40	..	..
	Howden Dean No. 72.	Derwent Valley Water Bd.	5	1 0	965	..	43·87	..	..
M	Derwent Dale (HowdenCl'gh) No. 64	Derwent Valley Water Bd.	5	1 0	1030	44·4	43·60	..	..
M	Derwent Dale (Sandy Lee) **No. 7.**	Derwent Valley Water Bd.	5	1 0	1340	..	42·26	..	..
	Derwent Dale (Sandy Lee) *checkg.* 7A	Derwent Valley Water Bd.	5	1 0	1340	..	48·38	..	..
	6.—TRENT—Left Bank Tributaries. 143 sq. mi.								
	Lindrick Common (Woodside)	Mrs. M. E. Eardley	5	1 0	250	25·5	22·54	..	119
	Austerfield P.S.	Doncaster & Tickhill Joint Water Bd.	8	1 0	32	..	19·31	161	117
D	Rossington Main Colliery	Rossington Colliery Co., Ltd.	5	1 0	22	..	20·08	162	118
	7.—OUSE—Don. 564 sq. mi.								
	Burbage (Badger Ho.)†	Sheffield Corporation W.W.	5	1 0	1138	..	34·40	..	..
D	Sheffield W.W. (Redmires R.) (R)	Sheffield Corporation W.W.	10	5 0	1110	40·3	35·08	209	157
D	Sheffield W.W. (Redmires Res.)	Sheffield Corporation W.W.	8	4 0	1110	39·9	34·57	213	159
D	Sheffield W.W. (Redmires R.) *new g.*	Sheffield Corporation W.W.	5	1 0	1110	..	36·09	213	158
§	Rivelin (Oaking Clough)	Sheffield Corporation W.W.	8	1 0	1160	39·8	35·11	..	..
	Rivelin (Middle Moss)	Sheffield Corporation W.W.	5	1 0	1168	41·0	37·80	..	..
D	Sheffield W.W. (Rivelin) (+A)	Sheffield Corporation W.W.	8	1 6	564	35·2	33·60	183	150
	Sheffield W.W. (Black Clough)	Sheffield Corporation W.W.	5	1 0	1175	40·3	42·18	..	..
D	Sheffield W.W. (Crookes)	Sheffield Corporation W.W.	5	1 1	629	..	26·62	175	136
D	Sheffield W.W. (Crookes)	Sheffield Corporation W.W.	8	2 0	629	..	25·09	175	133
D	SHEFFIELD (Weston Park)	The Corpn. (E. Howarth, F.R.A.S.)	8	1 0	428	30·4	24·68	171	130
	Loxley Valley (Crawshaw Wood)	Sheffield Corporation W.W.	5	1 0	1175	..	37·16	..	..
	Loxley Valley (Broadcar)	Sheffield Corporation W.W.	5	1 0	1004	44·4	41·15	..	..
	Loxley V. (Oaks Fm. Damflask)	Sheffield Corporation W.W.	5	1 0	650	36·1	34·21	..	..
	Loxley V. (Loftshaw, Strines)	Sheffield Corporation W.W.	5	1 0	1011	43·2	36·98	..	..
D	Loxley Valley (Bradfield Filters)	Sheffield Corporation W.W.	8	1 0	551	..	34·65	190	159
D	Loxley V. (Dale Dike Res.)	Sheffield Corporation W.W.	8	1 0	715	39·5	37·59	214	164
	Loxley Valley (Bragging Moss)	Sheffield Corporation W.W.	5	1 0	1360	..	43·64	..	..
	Loxley V. (Thornseat)	Sheffield Corporation W.W.	5	1 0	1326	42·6	38·95	..	..
	Loxley V. (Rocher Flat)	Sheffield Corporation W.W.	5	1 0	1106	37·1	31·74	..	..
	Loxley V. (Emlin Moor)	Sheffield Corporation W.W.	5	1 0	998	41·3	38·22	..	..
	Loxley Valley (White Lee Moor)	Sheffield Corporation W.W.	5	1 0	1170	..	35·74	..	..
	Loxley Valley (Hobson Moss)	Sheffield Corporation W.W.	5	1 0	1530	..	41·61	..	..
D	Rotherham (Ulley Res.) No. (2).	Vincent Turner, Esq., C.E.	5	1 0	184	23·4	21·12	152	113
D	Rotherham (Ulley Res.) No. (3).	Vincent Turner, Esq., C.E.	5	1 0	132	23·2	21·63	152	115
D	Wincobank (Sewage Works) (+A)	The late J. Haworth, Esq.	5	1 6	110	23·0	20·19	165	113
D	Rotherham (Sitwell Vale)	G. Howard, Esq.	5	1 0	300	26·0	21·59	176	122
D	Rotherham (Kimberw'rth Sch.)	Vincent Turner, Esq., C.E.	5	1 0	258	24·7	21·36	172	114
D	Rotherham (Aldwarke Sew. Wks.) (+A)	James H. Kershaw, Esq.	5	1 4	71	24·7	20·46	171	110
D	Rotherham (Thrybergh)	F. O. Kirby, Esq., C.E.	8	1 0	184	23·8	19·02	167	107
D	Ecclesfield (Sewage Works)	F. Thurlby, Esq., C.E.	5	0 7	172	..	23·40	172	135

* Station previously in Derbyshire—6. † Station previously in Derbyshire—8. § Gauge possibly over-exposed.

DIVISION IX—YORKSHIRE—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1934. Rain-fall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	7.—OUSE—Don—(*con.*).								
D	Conisborough (Firsby Res.)	F. O. Kirby, Esq., C.E.	8	1 4	189	26·1	21·39	180	129
	Ewden (Middle Moss)	Sheffield Corporation W.W.	5	1 0	1600	51·0	42·92	..	..
	Ewden (Broomhead Moor)	Sheffield Corporation W.W.	5	1 0	1370	48·6	40·51	..	..
D	Ewden (Canyard Brook)	Sheffield Corporation W.W.	5	1 0	585	..	35·50	205	156
	Ewden (Candle Rush)	Sheffield Corporation W.W.	5	1 0	1400	..	42·34	..	..
	Ewden (Wightwizzle)	Sheffield Corporation W.W.	5	1 0	860	41·5	37·35	..	..
	Ewden (Broomhead Hall)	Sheffield Corporation W.W.	5	1 0	905	42·1	35·07	..	..
D	Ewden (More Hall Reservoir)	Sheffield Corporation W.W.	8	1 0	408	33·9	30·25	195	147
D	Ewden (Broomhead Reservoir)	Sheffield Corporation W.W.	8	1 0	600	35·6	33·42	205	151
	Ewden (Margery Hill)	No. 2. Sheffield Corporation W.W.	5	1 0	1784	..	46·13	..	..
	Ewden (Waldershaigh)	Sheffield Corporation W.W.	..	..	875	35·3	30·63	..	..
	Ewden (Brown Edge)	Sheffield Corporation W.W.	5	1 0	1325	50·5	40·48	..	..
D	Wentworth Woodhouse	Mr. A. Third	5	0 10	360	27·2	21·31	155	113
D	Mexborough	G. Fenwick Carter, Esq., C.E.	5	1 6	77	22·4	18·56	166	114
	Wortley (Service Reservoir)	J. R. Fox, Esq., C.E.	5	1 0	700	30·0	26·74	202	141
	Midhope Moor (Barnside)	J. R. Fox, Esq., C.E.	5	1 0	1000	43·4	34·53	243	163
D	Little Don Val. (Laund Clough)	Sheffield Corporation W.W.	5	1 0	1515	..	49·46	..	..
	Little Don Val. (Underbank Res.)	Sheffield Corporation W.W.	8	1 6	604	34·6	30·51	192	154
	Little Don Val. (Brockholes)	Sheffield Corporation W.W.	5	1 0	902	34·0	31·36	..	..
	Little Don Val. (Sheep House)	Sheffield Corporation W.W.	5	1 6	945	34·2	27·52	..	..
	Langsett Moor (Midhope) *new g.*	J. R. Fox, Esq., C.E.	5	1 0	823	..	36·95	201	156
D	Langsett Moor (Up. Midhope)	Sheffield Corporation W.W.	8	1 6	925	41·6	33·84	209	159
	Langsett Moor (Mickleden)	Sheffield Corporation W.W.	5	1 0	1217	48·0	41·08	..	..
	Langsett Moor (Mickleden) *new g.*	Sheffield Corporation W.W.	5	1 0	1110	..	45·93	..	..
	Langsett Moor (Catclough)	Sheffield Corporation W.W.	8	1 0	1516	47·8	43·13	..	..
	Langsett Moor (Fiddlers Green)	Sheffield Corporation W.W.	8	1 6	1493	48·7	43·13	..	..
	Langsett Moor (Fiddler's G.) *new g.*	Sheffield Corporation W.W.	5	1 0	1480	..	43·93	..	..
	Langsett Moor (Border Hill)	Sheffield Corporation W.W.	5	1 0	1148	46·9	42·48	..	..
D	Langsett Moor (Swinden Lodge)(+A)	Sheffield Corporation W.W.	8	1 0	1037	44·0	36·80	211	163
D	Langsett Moor (Flouch Road)	Sheffield Corporation W.W.	8	1 0	960	40·3	36·22	213	162
D	Wath-upon-Dearne (Chapel St.)	Dr. T. Crowley	8	1 3	188	24·8	19·06	155	109
	Wogden Foot (Cat Clough)†	J. R. Fox, Esq., C.E.	5	1 0	889	..	39·79	..	..
D	Balby (Sewage Works)	F. O. Kirby, Esq., C.E.	5	1 0	29	..	20·01	170	115
D	Low Pasture P.S.	F. O. Kirby, Esq., C.E.	5	1 0	24	..	19·54	165	112
D	Doncaster (Pumping Station) *new g.*	F. O. Kirby, Esq., C.E.	5	1 0	31	..	21·14	155	123
D	Doncaster (Avenue Road)	The late M. H. Stiles, Esq.	5	1 3	60	25·2	22·08	162	118
D	Bolton-on-Dearne (Goldthorpe)	E. Washington, Esq.	5	1 6	93	24·3	20·55	167	111
W	Dunford Bridge (Windledon)	Dewsbury Water Works	8	2 2	1100	49·3	42·00	..	..
D	Dunford Bridge Res.	Dewsbury Water Works	8	2 0	1111	49·2	40·16	209	173
W	Dunford Bridge (Dearden)	Dewsbury Water Works	8	1 6	1244	49·3	42·43	..	..
W	Dunford Bridge (Harden)	Dewsbury Water Works	8	2 0	1300	50·9	44·98	..	..
W	Dunford Bridge (Snailsden)	Dewsbury Water Works	8	2 0	1477	50·8	44·70	..	..
D	Darfield (Sewage Wks.)	The Surveyor	5	1 0	106	..	19·08	157	107
	Penistone (Scout Dike Res.)	J. R. Fox, Esq., C.E.	5	1 0	730	32·8	25·78	188	134
	Penistone (Ingbirchworth Res.)	J. R. Fox, Esq., C.E.	5	1 0	853	38·0	32·32	195	122
	Penistone (Broadstone Res.)	J. R. Fox, Esq., C.E.	5	1 0	..	36·8	29·23	187	152
D	Barnsley (Jordan Hill)	J. R. Fox, Esq., C.E.	5	1 0	460	26·2	21·35	178	118
D	Bentley Colliery	Messrs. Barber, Walker & Co., Ltd.	5	1 0	23	..	19·65	154	116
D	Cawthorne (Cannon Hall)	J. M. Spencer Stanhope, Esq.	5	0 11	418	29·1	22·06	153	118
D	Barnsley (Burntwood Hall)	J. Dymond, Esq.	5	1 0	378	25·9	21·97	176	113
D	Kirk Bramwith	C. E. Farran, Esq., C.E.	5	2 6	22	23·2	18·39	164	121
D	Goole	Aire & Calder Navigation	5	1 0	18	22·9	20·28	165	119
	8.—OUSE—Aire—Calder. 361 sq. mi.								
D	Holmbridge (Yateholme Res.)	W. H. Duckworth, Esq., C.E.	5	1 0	1009	59·2	55·00	220	182
D	Holmbridge (Yateholme Farm)	W. H. Duckworth, Esq., C.E.	5	1 0	861	56·4	53·69	220	176
	Holmbridge (Bilberry Res.)	Messrs. Mallinson & Son	5	1 0	970	52·4	43·89	..	..
	Holmfirth (Holme Styes Res.)	Messrs. Mallinson & Son	5	1 0	830	45·7	37·52	..	..
	Holmfirth (Boshaw Whams R.)	Messrs. Mallinson & Son	5	1 0	930	49·7	34·23	..	..
D	Holmfirth (Thongsbridge)	Mrs. Robson	8	1 0	..	46·2	39·04	196	156
D	Holmfirth (Snape Res.)	Holmfirth U.D.C.	6	1 0	1060	..	40·16	223	169
	Meltham (Harden Moss) *new g.*	J. W. Armitage, Esq., C.E.	8	1 0	1212	..	44·63	..	..
‖	Wessenden Head *new g.*	J. W. Armitage, Esq., C.E.	8	1 0	1270	..	41·67	..	..

† Previously called "Hazlehead." ‖ Gauge in 6ft. square iron hurdle fence, 6ft. high.

DIVISION IX—YORKSHIRE—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Day with ·04 in. or more.
WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
8.—OUSE—Aire—Calder—(*con.*).								
Wessenden (Holly Bank Moss)	J. W. Armitage, Esq., C.E..	8	1 0	1280	..	44·07	..	..
‖Wessenden (Old Reservoir)	J. W. Armitage, Esq., C.E..	8	1 0	1270	..	41·46	..	..
Wessenden (Butterley Moss)	J. W. Armitage, Esq., C.E..	8	1 0	1110	..	39·62	..	..
‖Wessenden (Bobus)	J. W. Armitage, Esq., C.E..	8	1 0	1200	..	40·01	..	..
‖Meltham (Brow Grains)	J. W. Armitage, Esq., C.E..	8	1 0	900	45·0	42·71	..	..
Meltham (Royd Edge)	C. L. Brook, Esq.	8	1 0	585	48·3	41·63	..	..
D MELTHAM (Harewood Lodge)	C. L. Brook, Esq.	8	1 0	514	44·5	38·88	220	166
Meltham Grange	J. W. Armitage, Esq., C.E..	8	1 0	850	41·1	39·14	..	..
‡Marsden Reservoir	L.M. & S. Rly. Co.	5	1 0	650	50·5	46·51	..	..
Marsden (Deer Hill)	J. W. Armitage, Esq., C.E..	8	1 0	1149	42·8	44·99	..	..
Marsden (Deer Hill) *new g.*	J. W. Armitage, Esq., C.E..	8	1 0	1149	45·0	42·74	..	..
D Slaithwaite (Blackmoorfoot)	J. W. Armitage, Esq., C.E..	8	1 0	800	43·1	35·09	230	165
D Slaithwaite (Inglewood)	J. Woodhead, Esq.	5	1 0	546	43·5	38·06	230	172
d Huddersfield (Bank Field, Golcar)	Miss M. J. R. Sykes	6	1 0	400	39·0	34·72	..	158
D HUDDERSFIELD (RAVENSKNOWLE)	The Corpn. (Dr. Woodhead)	8	0 11	325	30·1	21·55	183	123
w Huddersfield (Langley Ter.) (No. 1)	S. Morris Bower, Esq.	5	1 0	761	33·7	30·55	..	..
Huddersfield (Crosland Rd.) (No. 2)	S. Morris Bower, Esq.	4	1 0	761	35·2	29·11	..	..
D HUDDERSFIELD (OAKES)	S. Morris Bower, Esq.	5	1 0	761	34·3	29·66	222	157
w Moss Moor (Linsgreave)	Wakefield Corpn. W.W.	5	1 0	1264	51·2	47·80	..	..
D Rishworth (G. Walden Edge) *old*	Wakefield Corpn. W.W.	8	1 2	1135	49·3	45·29	240	186
D Rishworth (G. Walden Edge) *check*	Wakefield Corpn. W.W.	5	1 0	1135	..	46·33	240	187
D Rishworth (G. Walden Edge) *South*	Wakefield Corpn. W.W.	5	1 0	1135	..	46·43	240	186
w Rishworth (Long Clough)	Wakefield Corpn. W.W.	5	1 0	1000	..	50·17	..	..
w Rishworth (Stott Hall) *new g.*	Wakefield Corpn. W.W.	5	1 0	935	45·0	41·08	..	..
D Rishworth Lodge	Wakefield Corpn. W.W.	5	0 11	950	..	39·20	223	164
D Rishworth (Green Withens Res.)	Wakefield Corpn. W.W.	5	1 0	1205	48·2	42·23	240	185
w Rishworth (Pike End)	Wakefield Corpn. W.W.	5	1 0	1225	..	42·49	..	..
D Rishworth (Ringstone Res.) (*lower*)	Wakefield Corpn. W.W.	5	1 0	962	45·8	41·26	230	170
w Rishworth Moor (Greystones)	Wakefield Corpn. W.W.	5	1 4	1192	50·6	49·17	..	..
d Soyland Moor (Rishworth Drain)	C. J. Batley, Esq., C.E.	8	1 0	1290	52·9	51·55	..	..
w Soyland Moor (Summit) (East)	Wakefield Corpn. W.W.	5	0 11	1218	51·0	48·96	..	..
D Soyland Moor (Stansfield Hey)	Wakefield Corpn. W.W.	5	1 0	700	..	36·78	209	168
D Soyland Moor (Baitings Gate)	Wakefield Corpn. W.W.	5	1 0	943	50·6	46·95	256	185
d Soyland Moor (Byron Edge)	C. J. Batley, Esq., C.E.	8	1 0	1251	48·3	(43·07)	..	..
w Soyland Moor (Manshead)	Wakefield Corpn. W.W.	5	1 0	1225	51·2	46·10	..	..
d Walsden (White Holme)	C. J. Batley, Esq., C.E.	8	1 0	1240	..	43·78	..	..
D Walsden (Calf Lee)	Rochdale Corporation	8	1 0	960	..	46·45	227	177
D Walsden (Warland Res.)	Rochdale Corporation	8	1 0	1245	48·6	48·74	228	186
D Walsden (Warland Drain)	Rochdale Corporation	8	1 0	1250	51·9	46·15	228	176
Walton Hall	E. T. B. Simpson, Esq.	5	0 10	137	22·5	19·98	..	..
D Horbury (Addingford Hos.)	J. H. Horsfall, Esq.	8	1 0	169	23·3	21·56	167	117
D Mirfield (Cote Wall)	F. P. Mitchell, Esq.	8	1 0	200	30·2	23·89	160	124
D WAKEFIELD (Clarence Park)	Wakefield Corpn. W.W.	5	1 0	124	25·4	20·51	190	113
d Wakefield (Fieldhead Res.)	Wakefield Corpn. W.W.	5	1 0	250	24·0	18·96	..	109
D Normanton (Haw Hill Park)	The Surveyor, U.D.C.	8	1 1	136	23·3	19·77	168	111
w Walsden (Ramsden Hill)	Rochdale Corporation	5	1 0	1326	52·0	49·00	..	..
D Walsden (Ramsden Reservoir)	Rochdale Corporation	5	1 0	993	52·7	48·11	224	177
D Todmorden (Fielden Hospital)	L. A. Crabtree, Esq.	5	1 0	650	..	45·30	246	172
D Todmorden (Sourhall Hospital)	L. A. Crabtree, Esq.	5	1 0	1020	53·8	50·67	231	186
D Halifax (Public Library)	E. Green, Esq.	8	1 0	625	34·3	30·31	214	141
D§Dewsbury (Mitchell Laithes Sew.Wks.)	The Manager	8	1 0	115	..	21·11	166	116
D Dewsbury (Municipal Offices)	The Borough Engineer	5	1 6	225	..	20·71	164	111
D Dewsbury (Crow Nest Park)	H. Roscoe, Esq.	8	0 9	277	..	20·94	179	114
D Batley (Staincliffe Reservoir)	W. H. Duckworth, Esq., C.E.	5	1 0	492	24·1	22·33	174	123
D Ardsley (Jaw Hill Filters)	Wakefield Corpn. W.W.	5	1 0	315	22·4	22·37	162	110
D Ardsley Reservoir *Upper*	Wakefield Corpn. W.W.	5	1 2	395	23·9	21·58	165	119
D Halifax W.W. (Albert Res.)	E. P. Brook, Esq., C.E.	5	1 0	795	35·3	32·62	213	152
D Halifax W.W. (Gibbet Res.)	E. P. Brook, Esq., C.E.	5	1 0	568	34·6	30·85	195	147
D Halifax W.W. (Ramsden Wood)	E. P. Brook, Esq., C.E.	5	1 0	815	38·3	33·89	169	154
D Hebden Bridge (Burnside)	Miss M. Hoyle	5	1 0	830	43·9	42·76	241	169
D Halifax W.W. (Castle Carr Lo.)	E. P. Brook, Esq., C.E.	5	1 0	1060	42·6	41·05	244	182
w Halifax W.W. (Midgley Mr.) *new g*	E. P. Brook, Esq., C.E.	8	1 0	1350	44·3	44·38	..	..

‖ Gauge in 6ft. square iron hurdle fence, 6ft. high. ‡ Gauge on a steep bank. § Exposure unorthodox.

DIVISION IX—YORKSHIRE—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
8.—OUSE—Aire Calder—(*con.*).								
w Halifax W.W. (Warley Mr.) *new g*	E. P. Brook, Esq., C.E.	8	1 0	1325	43·0	41·16	..	..
D Halifax W.W. (Ogden)	E. P. Brook, Esq., C.E.	5	1 0	990	..	37·33	203	168
w Halifax W.W. (Ovenden Mr.) *new g*	E. P. Brook, Esq., C.E.	8	1 0	1375	41·8	41·05	..	..
w Halifax W.W. (Gorple)	E. P. Brook, Esq., C.E.	8	1 0	1320	47·0	42·62	..	..
D Halifax W.W. (Gorple Res.)	E. P. Brook, Esq., C.E.	5	1 0	1028	41·1	44·24	224	170
D Halifax W.W. (Widdop)	E. P. Brook, Esq., C.E.	5	1 0	1050	46·3	44·01	216	179
D Halifax W.W. (Walshaw Dean L.)	E. P. Brook, Esq., C.E.	5	1 0	1040	48·1	42·69	209	171
w Halifax W.W. (Walshaw Dean)	E. P. Brook, Esq., C.E.	8	1 0	1380	44·8	41·52	..	..
9.—OUSE—Aire. 504 sq. mi.								
D PONTEFRACT (The King's School)	The Headmaster	5	1 0	255	23·3	18·63	152	104
D Pontefract (Roall W.W.)	W. H. Newton, Esq., C.E.	8	1 0	42	23·0	21·69	175	119
D Rothwell (Lemonroyd Sew. Wks.)	Rothwell U.D.C.	5	1 0	58	..	19·66	181	115
Bradford (Grange Rd., Horton)	A. E. Chilton, Esq.	5	3 0	450	34·3	27·77	190	140
Bradford (Brayshaw Reservoir)	W. Newlands, Esq., C.E.	5	1 0	982	36·5	31·91	..	..
D BRADFORD (Lister Park)	The Corporation	8	1 0	439	33·9	27·67	181	137
D Bradford (Thornton Moor Filters)	W. Newlands, Esq., C.E.	5	1 0	1190	44·3	36·78	223	171
D Bradford (Stubden Res.) No. 8.	W. Newlands, Esq., C.E.	5	1 0	1071	44·9	41·42	207	165
M Bradford (Nan Scar, Oxenhope)	W. Newlands, Esq., C.E.	5	1 0	1101	47·6	40·52	..	..
M Bradford (Stairs Top, Oxenhope)	W. Newlands, Esq., C.E.	5	1 0	1360	52·4	(50·61)	..	..
D Bradford (Leeming Reservoir)	W. Newlands, Esq., C.E.	5	1 0	850	41·0	40·17	210	166
d Bradford (Doe Park Reservoir)	W. Newlands, Esq., C.E.	5	1 0	756	..	36·05	(205)	(161)
d Bradford (Leeshaw Res.)	W. Newlands, Esq., C.E.	5	1 0	875	47·3	44·45	(221)	(174)
D Bradford (Chellow Dean Res.)	W. Newlands, Esq., C.E.	5	1 0	645	34·5	31·24	198	148
D Bradford (Chellow Heights Res.)	W. Newlands, Esq., C.E.	5	1 0	848	36·6	29·64	190	154
d Bradford (Hewenden Res.)	W. Newlands, Esq., C.E.	5	1 0	677	..	33·37	(199)	(157)
d Bradford (Heaton Reservoir)	W. Newlands, Esq., C.E.	5	1 0	531	32·6	28·25	(191)	(139)
Leeds (Wortley Reservoir)	H. Shortreed, Esq.	8	0 9	307	28·1	23·65	170	121
Leeds (Knostrop)	H. Shortreed, Esq.	8	0 9	72	24·0	19·89	156	114
Leeds (Woodhouse Moor)	H. Shortreed, Esq.	8	0 9	307	26·7	24·04	209	138
D Seacroft (Leeds City Hospital)	Dr. J. S. Anderson	8	1 0	235	29·3	23·16	155	118
Leeds (Weetwood Res.)	H. Shortreed, Esq.	8	0 9	328	27·5	25·59	194	135
d Leeds (Weetwood Garth)	Mrs. F. Gott, J.P.	5	1 0	300	27·7	25·53	..	..
D Leeds (Weetwood)	F. J. Kitson, Esq.	5	2 0	250	28·4	24·84	162	129
D Haworth (Harbour Lodge)	J. Noel Wood, Esq., M.C., C.E.	8	1 0	1165	52·5	45·00	216	174
D Haworth (Lr. Laithe Res.) (+A)	J. Noel Wood, Esq., M.C., C.E.	6	1 0	772	48·1	42·09	217	168
D Oakworth (Oldfield Filters)	J. Noel Wood, Esq., M.C., C.E.	5	1 0	1008	44·6	42·33	213	177
D Oakworth (Oldfield Filters) No. 2	J. N. Wood, Esq., M.C., C.E.	5	1 0	978	..	41·68	213	176
D Bingley (Sewage Works)	J. R. Brown, Esq.	5	2 6	227	34·6	28·46	194	146
D Rawdon	Rawdon U.D.C.	5	1 0	579	29·0	24·77	176	123
D Bingley (Gilstead Filters)	W. Newlands, Esq., C.E.	5	1 0	572	..	29·98	199	155
D Bingley (Park Top)	M. E. Burton, Esq.	5	1 0	650	35·3	29·27	193	154
D Keighley (The Knowle)	P. Clough, Esq.	5	1 0	390	38·0	30·81	202	148
D Keighley (Victoria Park)	R. Butterfield, Esq.	5	1 0	304	35·7	29·51	202	152
D Bingley (East Morton)	J. Rhodes, Esq.	5	1 0	530	32·2	26·79	196	150
Bingley (Sunnydale Reservoir)	W. Newlands, Esq., C.E.	5	1 0	825	33·1	(25·65)	..	..
d Salterforth (Barnoldswick W.W.)	Barnoldswick U.D.C.	8	1 4	832	46·6	45·39	..	..
D Earby (Sewage Works) (+A)	The Surveyor	5	1 9	426	39·3	35·53	190	157
M Silsden (Gill Grange)	W. Newlands, Esq., C.E.	5	1 0	883	30·8	26·54	..	..
D Silsden Reservoir	W. Newlands, Esq., C.E.	5	1 0	560	31·2	29·69	198	159
M Silsden (Cringles Res. Site)	W. Newlands, Esq., C.E.	5	1 0	715	31·3	(29·12)	..	..
D Elslack (Stories Farm) *new g.*	Barnoldswick U.D.C.	5	1 0	675		36·30	208	170
Carleton (Beech Hill)	W. Cyril Empson, Esq.	8	1 3	425	37·8	32·59	..	..
D Skipton (Town Hall) (A)	A. E. W. Aldridge, Esq.	6	1 6	367	33·5	29·63	191	159
Gargrave (Banks Hill Banknewton.)	Leeds & Liv'pool Canal Co.	8	1 0	545	35·5	32·37	..	..
Gargrave (Ray Bridge Hill)	Leeds & Liv'pool Canal Co.	8	0 10	459	34·2	39·80	..	..
D Skipton (Embsay Moor) (+A)	A.E.W. Aldridge, Esq.	5	3 1	670	..	31·95	202	161
Winterburn (Long Hill)	Leeds & Liv'pool Canal Co.	8	1 0	705	37·8	38·27	..	..
Winterburn (Brown Hill)	Leeds & Liv'pool Canal Co.	8	1 0	961	42·8	41·92	..	..
10.—OUSE—Wharfe. 408 sq. mi.								
D Aberford (Lotherton Hall)	Col. R. T. T. Gascoigne, D.S.O.	5	1 0	208	24·5	23·25	169	128
Adel (Eccup, East)	H. Shortreed, Esq.	8	0 9	375	29·3	27·15	212	139
D Harewood House	Dowager Countess of Harewood.	5	0 10	300	29·7	27·19	148	128
D Ilkley (Silverwell Cottage)	The Engineer & Surveyor	5	1 0	900	38·2	35·26	212	166

DIVISION IX—YORKSHIRE—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
10.—OUSE—Wharfe—(*con.*).								
D Ilkley (Spence's Garden)	The Engineer & Surveyor ..	5	1 0	315	35·1	33·44	200	150
Leathley (Lindley Wood, S.)	H. Shortreed, Esq.	8	0 9	312	31·6	27·90	201	143
D Ilkley (March Gill Reservoir)	C. F. Hodgson, Esq., C.E....	5	1 0	655	34·0	29·94	201	168
D York (Middlethorpe Hall)...No. 2.	Mr. J. Fletcher	5	1 0	48	..	22·03	172	124
D York (Chalfonts)	Arnold S. Rowntree, Esq....	5	1 0	57	..	22·70	160	140
D York (Bishopthorpe Road)	J. Terry & Sons Ltd.	5	1 0	54	..	21·22	164	122
d York (Cherry Hill)	Messrs. H. Richardson & Co.	5	1 6	50	24·2	22·11	..	..
D York (Acomb Landing)	W. H. Humphreys, Esq., C.E.	5	1 0	40	22·6	22·54	163	124
M Skipton (Counter Hill)	W. Newlands, Esq., C.E. ..	5	1 0	951	30·2	(27·90)	..	..
d Skipton (Chelker Reservoir)	W. Newlands, Esq., C.E. ..	5	1 0	730	32·9	28·31	(197)	(152)
Fewston (Timble Ings)	H. Shortreed, Esq.	8	0 9	912	35·5	33·44	195	159
Fewston (Swinsty, East)	H. Shortreed, Esq.	8	0 9	460	34·4	28·79	190	139
Fewston, North	H. Shortreed, Esq.	8	0 9	525	..	31·02	216	157
Fewston (Blubberhouses)	H. Shortreed, Esq.	8	0 9	575	37·1	32·90	206	166
D Bolton Abbey Estate Office	A. Downs, Esq.	5	1 2	368	36·3	31·52	205	162
D Barden Reservoir	W. Newlands, Esq., C.E. ..	5	1 0	746	41·8	40·49	237	172
M Upper Barden Reservoir	W. Newlands, Esq., C.E. ..	5	1 0	1061	..	40·70	..	..
Thruscross (Lane Head)	H. Shortreed, Esq.	8	0 9	950	..	32·62	214	166
M Burnsall (Thorpe Fell)	W. Newlands, Esq., C.E. ..	5	1 0	1649	..	(42·46)	..	..
M Burnsall (Sandbed Beck)	W. Newlands, Esq., C.E. ..	5	1 0	676	41·0	40·56	..	..
d Grassington (Greenways)	Mrs. D. Sampson	5	8 0	700	..	34·41?	(209)	(161)
D Grimwith Reservoir	W. Newlands, Esq., C.E. ..	5	1 0	893	43·9	41·59	228	184
M Grimwith (Trunla Hill)	W. Newlands, Esq., C.E. ..	5	1 0	1201	..	47·35	..	..
D Buckden	G. E. Clayton, Esq.	5	1 0	800	54·9	55·96	217	181
D Oughtershaw Hall	Miss G. J. Woodd	5	1 6	1175	68·7	65·51	221	195
11.—OUSE—Nidd. 254 sq. mi.								
d Wetherby (Stockeld Park)	C. E. Johnson, Esq.	5	1 2	500	..	23·63	..	117
Spofforth (Sewage Works)	C. E. Rivers, Esq., C.E.	5	1 0	184	27·0	25·12	181	122
d Poppleton	Second Anglo-Scottish Sugar Corpn..	8	0 8	60	..	21·85	..	..
D Wetherby (Ribston Gardens)	Mrs. P. Hornby	5	1 2	130	26·5	26·47	190	136
M Harrogate W.W. (Ling Cottage)...	A. S. West, Esq., C.E.	5	1 0	740	30·5	29·33	..	..
M Harrogate W.W. (Broad Dubb)...	A. S. West, Esq., C.E.	5	1 0	725	31·8	28·64	..	..
M Harrogate W.W. (Cobblers Cott.)..	A. S. West, Esq., C.E.	5	1 0	730	30·9	29·09	..	..
D Harrogate W.W. (Ten Acres Res.)..	A. S. West, Esq., C.E.	8	1 6	620	..	32·10	209	160
D Harrogate W.W. (Scargill Res.)...	A. S. West, Esq., C.E.	8	1 0	646	32·4	31·90	212	155
D Harrogate W.W. (Beaver Dyke R.).	A. S. West, Esq., C.E.	8	0 11	575	31·0	30·72	213	153
M Harrogate W.W. (John o' Gaunts).	A. S. West, Esq., C.E.	5	1 0	600	31·2	30·15	..	..
M Harrogate W.W. (Long Stoop)....	A. S. West, Esq., C.E.	5	1 0	700	31·3	(29·89)	..	..
M Harrogate W.W. (Knab's Moor)...	A. S. West, Esq., C.E.	5	1 0	700	30·0	27·77	..	..
D Harrogate (Harlow Moor Obsy.)	C. E. Rivers, Esq., C.E.	5	1 0	478	30·6	28·45	172	138
D Harrogate (Harlow Hill Res.)	A. S. West, Esq., C.E.	8	1 0	589	..	29·71	189	146
D Harrogate (Duchy Road)	J. S. Farrah, Esq.	5	1 0	450	29·2	30·64	173	143
D Harrogate (Irongate Bridge Res.)..	A. S. West, Esq., C.E.	8	1 6	455	29·3	32·02	190	149
D Knaresborough (Goldsbro Hall Gdns)	Mr. R. Wilson	5	1 0	112	25·8	25·78	175	129
D Knaresborough (The Abbey)	Rev. Canon J. T. Hartley ...	5	1 0	140	26·3	26·14	190	135
D Knaresborough (Water Tower)	A. S. West, Esq., C.E.	8	1 0	240	..	30·92	184	140
Harrogate (Bilton Sewage Works)..	C. E. Rivers, Esq., C.E.	5	1 0	208	28·5	27·44	190	137
D Birstwith Hall	Sir F. A. Aykroyd, Bt.	5	1 0	400	34·4	32·56	210	150
D Birstwith (Swarcliffe)	Capt. C. S. Greenwood	5	1 0	510	33·9	31·02	191	148
Ramsgill (Holme Ho. Gouthwaite)	W. Newlands, Esq., C.E. ..	5	1 0	464	39·9	39·27	..	..
D Ramsgill (Raygill House)	W. Newlands, Esq., C.E. ..	5	1 0	925	46·7	45·42	199	173
D Ramsgill	W. Newlands, Esq., C.E. ..	5	1 0	450	42·1	42·89	190	162
D Middlesmoor (Stean Moor)	Sir F. A. Aykroyd, Bt.	5	1 0	1100	49·6	48·24	184	170
M Nidderdale (East Gill Head)	W. Newlands, Esq., C.E. ..	5	1 0	1710	57·6	53·80	..	..
M Nidderdale (Rain Stang)	W. Newlands, Esq., C.E. ..	5	1 0	1470	47·4	44·57	..	..
D Nidderdale (New Houses)	W. Newlands, Esq., C.E. ..	5	1 0	755	45·8	44·57	195	164
D Nidderdale (West Houses)	W. Newlands, Esq., C.E. ..	5	1 0	1165	52·5	62·39	260	196

DIVISION IX—YORKSHIRE—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
12.—OUSE—Ure. 110 sq. mi.								
Dallow Moor (Harper Hill)	H. Shortreed, Esq.,	8	0 9	858	..	28·52	187	146
d Ripon (Studley Royal Gdns.)	F. M. Sutherland, Esq.	5	1 6	250	29·1	(29·28)	..	..
D Ripon (The Red House)	F. D. Wise, Esq., C.E.	5	1 0	120	27·2	27·17	173	139
Kirby Malzeard (Drovers' Inn)	H. Shortreed, Esq.	8	0 9	576	36·0	34·74	185	144
Kirby Malzeard (Hawsett)	H. Shortreed, Esq.	8	0 9	820	37·1	34·45	204	155
Kirby Malzeard (Hambleton Hill)	H. Shortreed, Esq.	8	0 9	1106	39·7	38·89	..	..
Kirby Malzeard (Bagwith Brae)	H. Shortreed, Esq.	5	0 9	703	32·9	32·59	202	137
Kirby M. (Stone & Ears Wham)	H. Shortreed, Esq.	8	0 9	1118	39·7	34·86	..	..
EAST RIDING. (Area, 1,176 sq. mi.).								
1.—OUSE—Left Bank Tributaries. 82 sq. mi.								
D Osgodby (Fruit Testing Stn.)	Prof. of Agric. Leeds Univ.	5	1 0	30	24·2	21·39	165	124
D York (Heslington)	Hn. L. de Yarburgh-Bateson	8	1 0	39	25.3	25·15	183	139
D York (Dunnington Hall)	Miss E. C. Hildyard	8	1 2	110	24·6	25·43	211	147
2.—OUSE—Derwent. 248 sq. mi.								
D Birdsall Gardens	Mr. J. Anderson	5	1 2	308	29·2	27·53	174	128
D Westow Vicarage	Rev. G. T. W. Purchas	5	1 0	190	25·8	21·80	186	121
D Rillington (Scampston Hall)	W. H. St. Quintin, Esq.	5	1 6	102	27·1	24·38	171	130
3.—HUMBER—Left Bank Tributaries. 675 sq. mi.								
D Spurn Head (Lighthouse) *new g.*	Lightkeeper (M.O.)	8	1 0	29	24·0	20·38	169	113
D **Patrington (Rose Cottage)**	Miss S. A. Kirman, for M.O.	5	1 3	46	**23·3**	19·56	151	111
D **Patrington Rectory**	Rev. P. R. Frost	5	1 0	50	**22·0**	18·55	168	103
D Withernsea (Lascelles Av.)	H. Knight, Esq.	5	0 10	20	..	22·00	184	122
D Hull (Pearson Park)	The Superintendent	5	0 10	8	25·4	21·40	171	110
D **Hull (Springhead)**	W. D. Bingham, Esq.	5	1 0	16	25·5	(22·59)	174	119
D **Cottingham (Waterworks)**	W. D. Bingham, Esq.	5	1 0	26	24·3	(24·35)	175	121
D **Holme-on-Spalding Moor**	C. J. Pybus, Esq.	8	1 0	30	25·9	23·85	175	144
D Beverley (E. Riding Mental Hosp.)	Medical Superintendent	5	1 0	175	26·5	24·33	172	119
D Beverley (New Walk)	F. J. Affleck, Esq.	5	3 0	38	26·9	24·62	182	126
d Beverley (Hull Bridge)	F. J. Affleck, Esq.	5	2 6	11	24·9	22·85	..	113
D **Market Weighton (Dalton Holme)**	J. P. Jobling, Esq.	8	6 0	120	27·3	24·03	189	129
d Brandesburton (Hempholm Lk.)	F. J. Affleck, Esq.	5	2 6	11	24·6	24·17	..	123
D Driffield (Council School)	The Headmaster	5	1 0	69	27·2	27·09	175	130
D **Lowthorpe (The Elms)**	F. K. Hawes, Esq.	5	1 0	63	**26·5**	24·20	175	124
4.—EAST COAST STREAMS. 171 sq. mi.								
D Bridlington (Corpn. Nurseries)	Parks Superintendent	5	1 0	60	25·6	26·46	197	131
D Bridlington (School)	The Headmaster	5	1 0	76	..	25·24	175	117
d Burton Fleming (Council School)	The Headmaster	5	1 0	128	27·3	30·29	..	..
M Ganton (Willerby Wold)	Major W. F. Wormald	5	1 2	565	..	27·26	..	..
D Filey Vicarage	Rev. Canon A. N. Cooper	8	1 0	96	24·8	25·98	181	129
NORTH RIDING. (Area, 2,155 sq. mi.).								
1.—OUSE—Ure. 273 sq. mi.								
D West Tanfield Rectory	Mr. H. H. Milman	5	1 0	150	28·7	27·12	170	132
D Masham Moor (Roundhill Res.)	A. S. West, Esq., C.E.	8	1 0	743	37·6	38·68	234	152
Masham Moor (Somerside)	H. Shortreed, Esq.	5	0 9	928	38·8	38·58	190	156
w Masham Moor (High Sour Mire)	H. Shortreed, Esq.	5	0 9	884	..	36·04	..	..
Masham Moor (Leighton Res.)	H. Shortreed, Esq.	5	0 9	634	35·9	34·93	187	146
Masham Moor (Towler Hill)	H. Shortreed, Esq.	8	0 9	820	36·7	37·19	209	145
Masham Moor (Breary Bank)	H. Shortreed, Esq.	5	0 9	600	36·8	37·06	211	149
Masham Moor (Healey Pasture)	H. Shortreed, Esq.	5	0 9	620	36·1	35·95	208	144
Masham Moor (Low Houses)	H. Shortreed, Esq.	5	0 9	693	37·9	37·13	220	152
D Clifton Castle Gardens	Lady Cowell	5	1 0	360	29·9	29·41	158	123
Middleham (Cotescue)	A. Rowntree, Esq.	5	1 0	600	..	28·87	..	..
d Middleham (Castle Hill)	C. T. Dixon-Johnson, Esq.	5	1 0	470	31·7	(29·00)	..	..
D West Burton (Flanders Hall)	G. T. Whitehead, Esq.	5	2 0	520	..	35·91	203	152

DIVISION IX—YORKSHIRE—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
NORTH RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—OUSE—Ure—(*con.*).								
D West Witton (Ivy House)	J. B. Espiner, Esq.	5	1 0	605	34·1	33·26	188	146
D Leyburn (Spennithorne)	F. M. Curtis, Esq.	5	1 0	358	..	29·46	198	137
D Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1 0	420	32·6	30·36	187	131
2.—OUSE—Swale. 569 sq. mi.								
D Dalton Parsonage	Rev. G. H. Chilman	5	1 0	79	23·0	21·72	177	130
d Coxwold (The Old Hall)	H. Geipel, Esq.	4	1 6	260	26·1	28·35	..	145
D Thirsk (Sowerby)	Mrs. W. Brown	5	0 11	110	24·7	26·33	181	141
d Thirsk (Stoneybrough)	The late T. J. Foggitt, Esq.	5	1 2	122	24·7	(25·85)	..	..
M Felixkirk (Thirlby)	A. J. Walker, Esq.	5	1 0	338	27·1	27·72	..	..
D Felixkirk (Mount St. John).(+A)	A. J. Walker, Esq.	5	1 0	540	25·8	29·31	192	145
D Felixkirk (Mount St. John)	A. J. Walker, Esq.	5	1 0	540	26·5	28·96	193	145
D Bedale (Snape School)	The Headmaster	5	1 0	145	..	26·32	164	123
D Boltby (Ravensthorpe Manor)	F. E. Walker, Esq.	5	1 7	661	27·4	31·89	193	151
M Boltby, East	A. J. Walker, Esq.	5	1 0	459	26·2	31·97	..	..
M Boltby (High Paradise)	A. J. Walker, Esq.	5	1 3	1144	32·8	35·11	..	..
D Bedale (The Hermitage)	C. Clarke, Esq., F.S.I.	5	0 10	465	26·3	26·76	156	117
D Maunby Hall	Major A. Hill-Walker, V.C.	5	1 0	90	23·9	25·81	162	132
D Scruton Hall	A. Coore, Esq.	5	1 6	100	23·8	22·81	179	121
M Swaledale (Gunnerside Lodge)	W. M. Christy, Esq.	5	1 0	900	47·8	47·35	..	..
D Northallerton (Brompton)	J. P. Yeoman, Esq.	5	1 0	150	23·7	24·57	189	131
Osmotherly (Oakdale W.W.)	Northallerton U.D.C.	5	1 0	600	..	31·24	..	..
D CATTERICK (Aerodrome) (+A)	Meteorological Officer	8	1 0	175	..	22·10	170	123
D East Harlsey (Harlsey Hall)	Mrs. Constantine	5	1 0	370	..	25·08	149	131
d Richmond (C.E. School)	R. Hornby Esq.	5	1 0	430	..	27·07	..	..
D Reeth (Arkengarthdale)	Samuel Gott, Esq.	5	1 0	940	41·0	43·90	165	146
W Middleton Tyas	Mrs. Baker-Baker	5	0 10	380	25·7	24·77	..	..
3.—OUSE—Left Bank Tributaries. 153 sq. mi.								
D YORK (MUSEUM Gardens)	The Yorks. Phil. Soc. (Dr. W. L Collinge)	5	1 0	57	24·3	22·79	170	131
d Stockton-on-Forest (Stockton Hall)	Mrs. Lloyd	5	1 4	30	21·5	18·90	..	111
Haxby (Moorlands)	E. G. Tew, Esq.	6	1 6	59	24·1	19·94	..	..
4.—OUSE—Derwent. 509 sq. mi.								
D Welburn	R. Child, Esq.	5	1 0	190	26·1	24·90	201	131
D Malton (Broughton Road)†	C. C. Laverack, Esq.	5	1 0	161	25·5	22·84	173	132
D Terrington (The Cliff)	Sir Alfred Lascelles	5	1 0	340	..	26·16	147	136
D Hovingham Hall	Capt. W. A. Worsley	5	0 9	119	29·0	27·38	194	137
D AMPLEFORTH Abbey (*new site*)	Rev. J. B. Boyan, O.S.B.	5	1 0	313	..	28·04	180	133
D Oswaldkirk (Leyesthorpe Hall)	Major G. B. Foster	5	1 0	231	..	26·03	161	123
D Helmsley (Boys' School)	E. W. Williams, Esq.	5	1 0	225	..	32·51	210	151
D Pickering (Hungate Hall)	Dr. J. L. Kirk	5	3 0	90	26·8	24·90	183	132
D Seamer (Irton Pump Station)	J. Paton Watson, Esq., C.E	8	1 0	94	28·7	25·93	173	124
D Scarborough (Osgodby)	J. Paton Watson, Esq., C.E.	8	1 0	166	26·1	26·26	191	130
D East Ayton (Derwent House)	A. H. Robinson, Esq.	5	1 0	110	27·0	27·83	167	139
D Kirkby Moorside (Ravenswyke)	Capt. V. H. Holt, M.C., J.P.	5	1 0	270	27·2	25·76	171	135
D Thornton Dale (High Dalby Ho.)	J. A. Coulson, Esq.	5	1 0	325	..	26·35	154	125
D Farndale (The Vicarage)	W. J. Binnie, Esq., M.A., C.B.	8	..	..	..	38·65	203	158
5.—ESK & C. 278 sq. mi.								
D SCARBOROUGH	Medical Officer of Health	5	1 1	118	25·8	24·77	170	130
D Scarborough (Scalby)	Capt. W. H. L. Wordsworth	5	1 0	210	..	28·45	188	133
D Scarborough (Scalby, St. Philips)	L. T. Stewart, Esq.	5	1 0	130	26·1	23·72	166	118
d Cloughton (Cober Hill)	Yorkshire Guest House, Ltd.	5	1 0	250	..	27·58	..	104
D Egton Bridge (Bridgeholme)	Lt.-Col. R. Astley Smith	5	1 0	150	33·3	34·21	164	145
d Glaisdale (The Gables Gardens)	Mr. G. Horton	5	0 9	400	35·6	34·95	161	138
D Sleights (The Hall)	P. M. Horsfall, Esq.	5	1 0	220	30·7	(29·65)	154	130
D Danby (The School House)	J. W. Lynas, Esq.	5	1 0	500	35·2	35·08	183	160
D CASTLETON	Miss M. H. Punch	5	1 0	450	..	34·27	201	148
d Danby Lodge	Head Gardener	5	1 0	500	35·6	36·23	..	151

† Gauge previously at Broughton Rise.

DIVISION IX—YORKSHIRE—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	NORTH RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—ESK & C.—(*con.*).								
D	Whitby (Park Hall, Aislaby)	Rev. J. H. Richardson	5	1 0	500	30·7	29·25	175	130
	Whitby (Pannett Park)	The Park Superintendent	8	1 0	148	..	23·48	..	..
D	Whitby (Westthorpe)	Rev. M. A. C. Horsfall	6	1 6	150	..	25·13	166	134
D	Whitby (Mulgrave Castle)	Mr. J. Corbett	5	1 0	410	29·1	26·88	187	128
D	Guisborough (Lockwood Res.)	Cleveland Water Co.	8	1 0	632	33·0	33·46	218	150
D	Saltburn (Skelton Castle)	Col. W. H. A. Wharton	5	0 9	272	28·1	25·06	194	136
	6.—TEES. 373 sq. mi.								
D	Ingleby Manor	Lord DeL'Isle & Dudley	5	1 0	460	33·9	32·92	190	142
D	Kildale Hall	Major R. B. Turton	5	1 2	600	35·5	33·02	204	146
D	Crathorne Hall Gardens	J. L. Dugdale, Esq.	5	1 3	185	25·0	23·54	175	124
D	Barningham Park	Sir F. Milbank, Bart.	8	1 0	700	32·6	38·02	219	157
D	Nunthorpe (The Box)	G. D. Cochrane, Esq.	5	1 0	287	25·2	23·59	186	138
d	Marton-in-Cleveland (Southleigh)	Miss H. D. Wilson	5	0 11	100	24·2	24·93	..	119
D	Marton-in-Cleveland (Gartheen)	G. R. Collinson, Esq., C.E.	5	1 0	160	23·5	22·25	172	122
D	Middlesbrough (Albert Park)	R. Sutcliffe, Esq.	5	1 0	30	23·7	21·92	162	121
M	Baldersdale (Aygill)	G. R. Collinson, Esq., C.E.	5	1 0	1250	45·0	45·95	..	..
D	Lartington Filters	G. R. Collinson, Esq., C.E.	5	1 0	725	30·2	32·04	192	144
M	Baldersdale (Blackton Res.)	G. R. Collinson, Esq., C.E.	5	1 0	937	40·5	41·90	..	..
M	Baldersdale (Balderhead)	G. R. Collinson, Esq., C.E.	5	1 0	1360	45·7	46·90	..	..
D	Baldersdale (Hury R.) *old g site*	G. R. Collinson, Esq., C.E.	5	1 0	866	36·0	36·19	208	157
D	Baldersdale (Hury R.) *new g site*	G. R. Collinson, Esq., C.E.	5	1 0	862	37·3	37·08	208	157
M	Lunedale (Dow Crag)	G. R. Collinson, Esq., C.E.	5	1 0	1720	56·0	60·40	..	..
M	Lunedale (Lunehead)	G. R. Collinson, Esq., C.E.	5	1 0	1450	55·6	59·60	..	..
M	Lunedale (Selset)	G. R. Collinson, Esq., C.E.	5	1 0	924	40·8	40·25	..	..
D	Lunedale (Grassholme Res.)	G. R. Collinson, Esq., C.E.	5	1 0	936	39·7	40·64	200	163
M	Lunedale (Keekham)	G. R. Collinson, Esq., C.E.	5	1 0	1660	59·5	65·80	..	..
M	Lunedale (Hargill)	G. R. Collinson, Esq., C.E.	5	1 0	1320	53·4	52·70	..	..

DIVISION X—NORTHERN COUNTIES.

DURHAM. (Area, 1,011 sq. mi.).

	1.—TEES & C. 396 sq. mi.								
D	Darlington (South Park)	T. J. Morrison, Esq.	5	1 0	150	27·1	23·27	197	120
D	Darlington (Broken Scar)	G. R. Collinson, Esq., C.E.	5	1 0	158	26·2	24·23	175	127
D	Darlington (Stanhope Road)	Rev. A. W. M. Close	5	1 0	180	27·2	24·61	187	127
D	Darlington (Fighting Cocks Res.)	G. R. Collinson, Esq., C.E.	5	1 0	150	25·2	22·14	186	118
D	Egglescliffe	G. C. Jones, Esq.	8	1 2	100	24·0	23·21	184	120
D	Whorlton Vicarage	Rev. E. E. Gleaves	5	1 0	400	25·7	27·44	177	128
D	Piercebridge (Carlbury Hall)	J. H. Pease, Esq.	5	1 0	222	26·3	24·53	185	123
D	Gainford	H. L. Fife, Esq.	5	1 0	260	26·3	25·08	173	125
D	Barnard Castle (Bowes Museum)	S. E. Harrison, Esq.	6	1 0	500	30·4	30·22	204	138
D	Barnard Castle (County School)	The Bursar	5	1 6	540	29·1	30·01	201	136
D	Long Newton Reservoir	G. R. Collinson, Esq., C.E.	5	1 0	184	25·5	23·54	197	139
D	Stockton-on-Tees (Hartburn Lo.)	C. Nielsen, Esq.	5	0 10	45	24·4	24·24	192	144
d	Stockton-on-Tees (Ropner Park)	Park Curator	5	1 0	61	22·9	21·27	..	..
D	Stockton-on-Tees (Billingham)	I.C.I. (Fert. & Syn. Prod.) Ltd.	5	1 6	35	23·3	20·39	173	115
D	Billingham-on-Tees .....(+A).	The Engineer & Surveyor	8	1 0	58	..	20·23	166	119
d	Staindrop (Raby Castle) *old g*	Lord Barnard	5	1 0	450	28·5	(28·94)	(197)	(143)
D	Staindrop (Raby Castle) *new g*	Lord Barnard	5	1 0	450	27·6	28·86	198	140
d	Stillington Park	Messrs. Dorman Long & Co. Ltd.	5	1 0	140	27·1	24·21	..	..
d	Eggleston (Sunny Brae)	E. A. Smith, Esq.	5	1 6	1200	..	33·76	(181)	(144)
d	Middleton-in-Teesdale School	The Headmaster	5	1 0	740	35·9	40·17	..	..
D	Middleton-in-Teesdale (Newbiggin) *new g*	R. Coggins, Esq.	5	1 0	1000	40·8	49·37	219	176
D	Hurworth Burn (Crookfoot Res.)	J. R. Bradshaw, Esq.	10	1 6	296	25·4	23·51	187	129
D	West Hartlepool (Waterworks)	J. R. Bradshaw, Esq.	10	1 0	35	24·7	22·91	198	121
D	Hurworth Burn Reservoir	J. R. Bradshaw, Esq.	10	1 0	357	26·5	25·64	190	125
D	Hartlepool (Hart Reservoir)	J. R. Bradshaw, Esq.	10	1 0	172	..	21·25	183	121
D	Shotton (New Winning P. S.)	A. B. E. Blackburn, Esq., C.E.	8	1 0	402	29·4	28·96	195	135
D	Easington (Mill Hill Res.)	A. B. E. Blackburn, Esq., C.E.	8	1 0	521	..	28·26	195	135
D	Seaham (Dalton Pumping Sta.)	A. B. E. Blackburn, Esq., C.E.	8	1 0	345	27·0	28·35	202	137

DIVISION X—NORTHERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	DURHAM—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—WEAR. 464 sq. mi.								
	Wolsingham (Dryderdale)	Mrs. Cranston	5	1 3	700	..	36·55	..	..
d	Stanhope (Parson Byers Qy.)	Messrs. Dorman Long & Co., Ltd.	5	6 8	846	31·7	33·93	..	..
M	Burnhope (Grass Meres)	H. Robinson, Esq., C.E.	5	1 3	1850	59·1	58·20	..	..
M	Burnhope (Lodgegill Mine)	H. Robinson, Esq., C.E.	5	1 3	1950	61·4	65·35	..	..
D	Burnhope Bridge	H. Robinson, Esq., C.E.	8	1 0	1160	..	56·80	245	185
M	Cowshill (Wellheads Hush)	H. Robinson, Esq., C.E.	5	1 6	1690	52·7	55·70	..	..
D	Durham (Houghall Hort. Sta.)	County Education Com.	5	1 0	160	27·9	28·76	160	136
D	Durham	Univ. Obsy. (F. Sargent)	8	1 0	336	24·6	27·18	177	131
D	Weardale W.W. (Tunstall Res.)	H. Robinson, Esq., C.E.	8	1 2	724	32·4	39·13	175	146
D	Ushaw (College)	The Headmaster	5	1 0	594	28·2	33·06	184	136
M	Weardale W.W. (Waskerley 6)	H. Robinson, Esq., C.E.	8	1 0	1229	..	41·38	..	..
M	Weardale W.W. (Waskerley 3)	H. Robinson, Esq., C.E.	8	1 0	1433	..	42·59	..	..
D	Weardale W.W. (Waskerley)	H. Robinson, Esq., C.E.	8	1 0	1179	33·1	37·97	194	155
M	Weardale W.W. (Waskerley 1)	H. Robinson, Esq., C.E.	8	1 0	1317	..	39·80	..	..
D	Consett (Crookhall)	H. Shackleton, Esq.	5	1 0	642	..	39·20	158	139
D	Ryhope Pumping Station	A. B. E. Blackburn, Esq., C.E.	8	1 1	228	25·4	25·59	172	122
	Washington School	V. Parkin, Esq.	5	1 2	160	..	28·84	..	..
D	Sunderland (W. Hendon H.) No. 5	Mrs. W. A. Mounsey	5	1 0	130	25·6	27·39	190	126
D	Sunderland (Mowbray Pk.)	(+A) Medical Officer of Health	5	1 0	105	25·6	25·55	165	119
d	Monkwearmouth (Central Sch.)	The Headmaster	5	6 6	125	..	(26·87)	(199)	(119)
	3.—TYNE, LOWER. 151 sq. mi.								
D	Weardale W.W. (Hisehope Res.)	H. Robinson, Esq., C.E.	5	1 0	1450	..	42·36	207	161
D	Weardale W.W. (Smiddy Shaw)	H. Robinson, Esq., C.E.	8	1 3	1128	34·1	39·25	204	159
D	Consett Park Farm	T. Hutton, Esq., C.E.	8	1 0	630	..	34·86	173	136
D	Rowlands Gill (Chopwellwood)	Forestry Commission	8	1 0	446	28·7	32·93	186	135
D	Sunderland (Cleadon Pump. Stn.)	A. B. E. Blackburn, Esq., C.E.	8	1 0	216	24·4	26·33	175	112
D	South Shields (Bent's Park)	Dr. W. Campbell Lyons	5	1 0	36	24·2	31·20	191	136
D	South Shields (South Pier Wks.)	R. F. Hindmarsh, Esq., C.E.	5	1 0	17	..	25·07?	176	121
	NORTHUMBERLAND. (Area, 2,015 sq. mi.).								
	1.—EDEN. 20 sq. mi.								
	2.—SOUTH TYNE. 232 sq. mi.								
d	Allenheads	R. Hepple, Esq.	8	1 0	1350	..	50·73	..	..
	3.—TYNE, LOWER. 227 sq. mi.								
D	Corbridge (Howden Dene)	T. D. Straker-Smith, Esq.	5	1 0	200	27·3	32·44	198	140
D	Newcastle (Leazes Park)	W. J. Steele, Esq.	5	1 0	255	26·4	31·21	167	131
D	Newcastle (Deaf & Dumb Inst.)	The Superintendent	5	1 8	201	24·7	28·81	166	118
D	Newcastle (R. Grammar Sch.)	The Headmaster	5	0 11	167	..	29·20	167	123
D	Hexham (Causey Hill)	R. W. Gregory, Esq.	5	1 2	430	..	28·33	184	133
d	Hexham (Beaufront Castle)	H. David Cuthbert, Esq.	8	1 0	450	27·6	34·55	179	124
D	Tynemouth (Tyne Pier Works)	R. F. Hindmarsh, Esq., C.E.	5	1 0	54	25·1	26·95	171	122
D	Tynemouth (C.G. Sta.) *new g.*	Chief Officer (M.O.)	8	1 0	108	24·5	28·79	183	123
D	Whittle Dene Filters (Newc. W.W.)	A. Hardcastle, Esq., C.E.	5	1 1	353	26·6	31·56	198	138
D	Whittle Dene Res. (Newc. W.W.)	A. Hardcastle, Esq., C.E.	5	0 6	380	25·3	30·22	197	137
	4.—NORTH TYNE. 433 sq. mi.								
	Ryal Cottage (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	5	0 9	463	29·1	31·89	..	..
	Hallington Vill. (N'castle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	467	29·9	34·41	..	..
D	Hallington Res. (N'castle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	470	29·3	33·85	198	140
	Hallington (Fawcett) (Newc. W.W.)	A. Hardcastle, Esq., C.E.	5	1 2	537	28·2	32·66	..	..
	Hallington (Cheviott) (Newc. W.W.)	A. Hardcastle, Esq., C.E.	5	1 2	576	27·8	33·69	..	..
	Camphill (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	650	29·4	33·34	..	..
D	Colt Crag Res. (N'castle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	654	..	32·32	206	145
	Green Crag (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	900	30·4	36·50	..	..
D	Bellingham (Highgreen)	Sir C. Morrison-Bell, Bt.	5	1 0	849	35·4	39·15	225	153
D	Redewater (Catcleugh)	A. Hardcastle, Esq., C.E.	5	1 0	819	40·2	50·86	268	193
	5.—COQUET & C. 840 sq. mi.								
	Whittington (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	8	0 9	528	28·1	30·85	..	..
	Burnside (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	5	0 9	419	27·2	29·94	..	..
d	Kirkwhelpington	J. R. Wardle, Esq.	5	1 3	581	..	36·15	190	138
D	Morpeth (High Stanners)	R. Matheson, Esq., Jnr.	8	1 0	90	..	36·00	189	138
D	Ashington (Bothal School)	J. Gray, Esq.	5	8 0	110	25·3	31·48	186	125

DIVISION X—NORTHERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
NORTHUMBERLAND—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—COQUET & C.—(*con.*).								
D Morpeth (Cockle Park)	Northumberland Co. Council	8	1 0	325	29·3	35·00	199	133
D Font Res. (Tynemouth W.W.)	J. W. McKerrow, Esq.	10	1 2	620	31·1	40·09	220	152
Acklington (Broomhill Colliery)	A. M. Morison, Esq.	5	1 4	92	24·9	29·65	..	..
D Rothbury (Heatherlea)	J. H. Holmes, Esq., C.E.	5	1 0	460	..	38·50	197	133
D Callaly Castle Gardens	E. J. Farmer, Esq.	5	1 0	300	..	39·08	190	142
D Alnmouth (Nether Grange)	Miss E. Pease, J.P., O.B.E.	5	1 6	40	26·2	31·82	185	129
D Howick Hall Gardens	Earl Grey	8	1 0	110	..	32·45	185	137
d Stamford	W. Robertson, Esq.	5	3 8	175	..	(29·01)	(186)	(131)
D Doxford Hall	Rt. Hon. Walter Runciman, P.C.	5	1 0	150	..	34·06	178	133
D Chathill (Preston Tower)	G. G. Baker Cresswell, Esq.	8	1 0	140	28·3	32·45	165	133
D Belford (Newlands)	C. H. Sanderson, Esq.	5	4 8	130	..	30·56	201	136
6.—TWEED. 262 sq. mi.								
D Wooperton	Mrs. Burdon	6	1 6	..	30·0	41·14	181	149
D Kirknewton (Coldburn)	Mrs. A. Cowe	5	0 9	790	..	51·17	168	136
D Ilderton (Lilburn Tower Gdns.)	Mr. W. Lovett	5	1 0	250	30·4	36·76	196	138
d Wooler (Victoria House)	Miss E. M. Dodds	5	1 0	176	26·8	35·81	..	..
Mindrum (Thornington House)	Leonard Briggs, Esq.	5	..	..	28·6	39·74	..	..
D Berwick-on-Tweed (Ramparts)	Borough Surveyor	5	1 0	76	23·4	27·41	172	118
7.—INSULAR. 1 sq. mi.								
CUMBERLAND. (Area, 1,516 sq. mi.)								
1.—EDEN & SOLWAY. 887 sq. mi.								
D Ullswater (Hallsteads)	F. A. Carr, Esq.	5	1 0	497	54·7	61·06	226	181
D Watermillock (Gatesgarth)	Mrs. Spring-Rice	5	1 3	874	..	56·37	232	192
D Penrith (Hutton John)	F. Huddleston, Esq., C.E.	5	1 0	688	45·1	51·75	235	181
W Threlkeld (Skiddaw Ho.)	J. Robinson, Esq.	5	1 6	1480	..	76·20	..	..
D Penrith (Laurel Bank)	A. B. Sinclair, Esq.	5	1 0	480	36·4	34·78	206	146
D Penrith (Newton Rigg)	Cumberland County Council	8	1 0	560	36·4	34·04	224	151
D Penrith (Nunwick Hall)	R. Heywood Thompson, Esq.	5	2 0	268	31·8	33·23	199	157
D Troutbeck (Wellbank)	Miss R. Q. S. Streatfeild	5	1 0	800	..	74·58	237	211
M Allonby	W. H. Williamson, Esq., J.P.	5	1 0	25	..	32·59	..	..
Ainstable (Heather Glen)	A. Guthrie-Smith, Esq.	5	1 6	500	34·3	35·04	215	167
D Wigton (Brookfield)	David W. Reed, Esq., B.Sc.	5	1 0	124	36·7	35·35	208	165
D Wreay Vicarage	Rev. Canon A. R. Hall	5	1 0	310	31·5	30·55	212	157
D Silloth	Miss A. P. Farries	5	1 0	27	..	37·10	178	159
D Geltsdale	P. Dalton, Esq., C.E.	5	1 2	778	36·8	39·54	220	187
D Carlisle (Spital Cemetery)	L. C. Collett, Esq.	8	1 0	114	31·8	33·13	205	155
Carlisle (Denton Holme)	W. Eggleston, Esq.	5	1 0	57	30·1	31·79	..	..
D Carlisle (Rose Hill)	Henry Lonsdale, Esq.	8	1 1	105	..	34·13	208	151
D Carlisle (Scaleby Hall)	Lady Allison	5	1 0	111	33·7	36·02	212	155
2.—DERWENT. 257 sq. mi.								
M Sprinkling Tarn	T. Bainbridge, for M.O.	5	1 6	1985	131·8	181·00	..	..
M Styehead Tarn	T. Bainbridge, for M.O.	5	1 6	1472	129·6	168·75	..	..
M Stye Head A. *new g.*	T. Bainbridge, for M.O.	5	1 0	1100	..	164·05	..	..
M Borrowdale (Stockley Bridge)	T. Bainbridge, for M.O.	5	1 0	585	..	148·75	..	..
Borrowdale (Seathwaite) garden	T. Bainbridge, for M.O.	5	1 6	423	122·0	137·75	..	..
Borrowdale (Seathwaite) field	Miss C. Marshall	5	1 0	423	122·4	(140·20)	..	..
M Helvellyn (Hill Top Gill)	Manchester Corpn. W.W.	5	1 0	1050	..	113·90	..	..
M Ullscarf	Manchester Corpn. W.W.	5	1 0	2100	..	138·23	..	..
M‖ Helvellyn (Birkside)	Manchester Corpn. W.W.	5	1 0	1900	..	108·20	..	..
M Wythburn	Manchester Corpn. W.W.	5	1 0	610	99·6	105·54	..	..
M Helvellyn (Brown Rigg) *new g.*	Manchester Corpn. W.W.	5	1 0	1450	..	126·86	..	..
D Borrowdale (The Moraine)	G. Scott, Esq.	5	1 0	330	97·5	117·23	234	208
M Helvellyn (Brown Cove)	Manchester Corpn. W.W.	5	1 0	2250	..	109·53	..	..
D Watendlath Farm	W. Tyson, Esq., for M.O.	5	1 0	800	..	106·12	207	195
M Armboth Fells (The Pewitts)	Manchester Corpn. W.W.	5	1 0	1650	..	115·45	..	..
M Helvellyn (Whiteside), *new g.*	Manchester Corpn. W.W.	5	1 0	2100	..	106·05	..	..
D Buttermere (Hassness)	E. Dixon, Esq.	6	1 0	350	105·9	113·70	234	220
M Crummock Water (Lanthwaite Grn.)	The late R. W. Hall, Esq.	5	1 0	570	64·9	77·15	..	..
Thirlmere (Dale Head Hall), *new g.*	Manchester Corpn. W.W.	6	1 0	620	..	99·37	..	..

‖ Gauge removed to site selected after inspection and surrounded by a turf wall.

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	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	CUMBERLAND—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—DERWENT—(*con.*).								
D	Cockermouth (Loweswater)	Miss S. H. Frith	5	1 0	353	..	67·95	241	200
D	**Keswick (Lingholm Gardens)**	**J. Elson, Esq.**	**5**	**1 0**	**300**	**65·7**	71·41	228	188
D	Keswick (Derwent Island) *old g*	The late C. E. Marshall, Esq.*	5	0 9	280	56·3	66·87	232	187
	Keswick (Derwent Island) *new g.*	The late C. E. Marshall, Esq.*	5	1 0	290	57·0	60·18	231	..
D	Keswick (High Hill)	Clerk to the U.D.C.	5	1 0	254	54·9	58·51	217	177
D	Portinscale (High Moss)	Mrs. J. E. Brown	5	1 0	285	61·9	59·91	225	183
D	**Lorton (Kirkfell House)**	R. Wigham, Esq.	5	1 0	403	..	48·62	230	188
	Lorton (Broomlands)	Col. J. A. Jackson	5	1 0	270	..	59·19	240	..
D	Keswick (Mirehouse)	Miss Spedding	5	1 6	280	49·8	57·44	222	181
D	Workington (Stainburn Res.)	The Borough Surveyor	5	1 0	180	36·9	40·49	236	204
D	Threlkeld (Blencathra Sanat.)	Medical Superintendent	5	1 0	885	61·5	70·42	222	205
M	Cockermouth (Castlegate Drive)	The late R. W. Hall, Esq.	5	1 0	268	..	38·06	..	..
	Camerton Vicarage	Rev. E. C. Bennett	5	1 0	200	36·2	36·75	..	..
D	Bassenthwaite (Higham)	G. F. Fisher, Esq.	5	0 9	500	44·9	48·96	245	185
	3.—WEST COAST STREAMS. 235 sq. mi.								
D	Ravenglass (The Grove)	Walter Marchant, Esq.	5	1 0	70	42·5	42·10	204	176
D	Eskdale Green (Gatehouse)	Mr. E. Hayes	5	1 0	250	..	62·32?	226	186
D	Beckfoot (Eskdale Vicarage)	Mrs. F. K. Berry	5	1 0	169	63·6	71·61	231	193
	Braystones	H. H. Watson, Esq.	10	3 0	36	37·5	36·40	..	..
d	St. Bees (Eaglesfield)	S. T. Aston, Esq.	5	1 0	50	..	38·44	(203)	(172)
D	**St. Bees (Fern Bank)**	**Lt.-Col. G. Dixon**	**5**	**1 0**	**60**	**42·7**	41·65	223	171
d	Whitehaven (Stanley Pond)	The Priestman Whiteh'n Colls. Ltd.	5	1 6	45	47·5	46·04	(200)	(173)
D	Whitehaven (Scragill Reservoir)	A. Wilson, Esq., C.E.	8	1 0	188	43·5	44·56	219	173
	4.—DUDDON & C. 50 sq. mi.								
	5.—SOUTH TYNE. 87 sq. mi.								
D	Alston Vicarage	Rev. N. A. Walton	5	1 0	940	..	48·28	233	184
	WESTMORLAND. (Area, 783 sq. mi.)								
	1.—EDEN. 373 sq. mi.								
D	Kirkby Stephen (Eden Place)	Mrs. Paul Mason	5	1 0	544	42·3	39·78	211	162
	Wasdale Pike	Manchester Corpn. W.W.	5	1 0	1825	..	90·29	..	..
	Mosedale (Mosedale Cottage)	Manchester Corpn. W.W.	5	1 0	1443	87·8	105·15	..	..
	Wet Sleddale (Mirethwaite)	Manchester Corpn. W.W.	5	1 0	990	64·7	74·23	..	..
	Blea Water	Manchester Corpn. W.W.	5	1 0	1465	..	124·31	..	..
M	Blea Water B.	Manchester Corpn. W.W.	5	1 0	1420	..	132·55	..	..
	Mardale (Grove Brae)	Manchester Corpn. W.W.	5	1 0	802	..	91·37	..	..
	Shap (Birkbeck Fell)	Manchester Corpn. W.W.	5	1 0	935	56·0	61·74	..	..
	Swindale Parsonage	Manchester Corpn. W.W.	5	1 0	875	..	80·90	..	..
	Grisedale (Ruthwaite Lodge)	M. Marshall, Esq.*	8	1 0	1750	97·7	(114·41)	..	..
	Mardale (Low Raise)	Manchester Corpn. W.W.	5	1 0	2465	..	107·34	..	..
	Shap (Thornship Gill)	Manchester Corpn. W.W.	5	1 0	865	51·4	66·84	..	..
	Shap (Tailbert Head)	Manchester Corpn. W.W.	5	1 0	1100	55·6	59·45	..	..
	Hawes Water (Boulderstone Nab)	Manchester Corpn. W.W.	5	1 0	744	..	88·55	..	..
M	Hawes Water (Naddle Head)	Manchester Corpn. W.W.	5	1 0	1150	..	81·44	..	..
M	Hawes Water (Wallow Crag)	Manchester Corpn. W.W.	5	1 0	1250	..	81·27	..	..
M	Hawes Water (Naddle House)	Manchester Corpn. W.W.	5	1 0	825	60·5	72·83	..	..
	Hawes Water (Measand)	Manchester Corpn. W.W.	5	1 0	824	69·6	79·67	..	..
	Measand Beck (Keasgill)	Manchester Corpn. W.W.	5	1 0	1862	..	98·68	..	..
M	Hawes Water (Thornthwaite Pk.)	Manchester Corpn. W.W.	5	1 0	650	..	69·64	..	..
M	Hawes Water (Burn Banks)	Manchester Corpn. W.W.	5	1 0	900	..	73·49	..	..
D	Patterdale Hall	M. Marshall, Esq.*	5	1 3	490	86·4	98·40	226	207
d	Patterdale (Greenside Mine)	Matthew Place, Esq.	7	1 6	1100	91·9	98·07	..	..
	Bampton (Low Kop)	Manchester Corpn. W.W.	5	1 0	1876	..	66·99	..	..
M	Bampton (Low Kop) B.	Manchester Corpn. W.W.	5	1 0	1750	..	83·57	..	..
	Bampton (Walmhow)	Manchester Corpn. W.W.	5	1 0	615	46·5	60·75	..	..
	Bampton (Stanegarth)	Manchester Corpn. W.W.	5	1 0	913	59·5	69·04	..	..
M	Cawdale Beck (Howe Grain)	Manchester Corpn. W.W.	5	1 0	1642	..	80·02	..	..
	Heltondale (Kidmoor)	**Manchester Corpn. W.W.**	**5**	**1 0**	**984**	..	68·81	..	..
D	Appleby (Castle Bank)	Lady Holmes	5	1 0	440	35·0	35·42	213	157
	Ullswater (Sharrow Bay)	Mr. G. Robinson	5	1 0	600	45·8	50·78	..	..

* *Per* Miss Cordelia Marshall.

DIVISION X—NORTHERN COUNTIES—(*con.*).

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	WESTMORLAND—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—EDEN—(*con.*).								
D	Morland	F. R. Markham, Esq.	5	1 0	455	35·6	35·75	194	154
	Morland Hall	W. G. Shorrock, Esq.	5	1 0	475	..	32·50	..	..
D	Penrith (Lowther Castle)	Mr. J. Jeffrey	5	1 6	760	41·8	43·00	209	169
d	Cliburn (Bongate Hall)*	L. S. Chapman, Esq.	5	1 0	420	..	(32·63)	(156)	(130)
D	Penrith (Barton House)	Mrs. Legh Tolson	5	1 0	500	42·4	43·09	217	168
D	Temple Sowerby (The Grange)	L. F. Phillips, Esq.	5	1 1	370	30·7	29·47	190	135
	2.—LEVEN. 60 sq. mi.								
D	Bowness (Dawstone)	J. Morton, Esq.	5	1 2	550	62·9	62·87	225	186
D	Windermere (Nurseries)	The Lakeland Nurseries, Ltd.	5	0 10	350	..	71·50	188	177
D	Windermere (St. Rule)	Miss E. M. Bullock	5	1 0	350	..	64·51	218	179
D	Windermere (Hammar Bank)	Mrs. H. Coutts	5	1 0	200	61·4	71·75	240	185
D	Windermere (Holehird)	H. L. Groves, Esq.	5	1 0	483	68·0	74·70	272	203
D	Windermere (Brockhole)	W. Gaddum, Esq.	5	1 6	175	66·3	71·02	231	193
D	Ambleside (Wansfell)	Miss Wrigley	8	1 0	150	71·9	76·05	236	199
M	Little Langdale (Fell Foot)	Miss C. Marshall	5	2 2	380	108·2	118·15	..	..
D	Ambleside (White Craggs)	C. H. Hough, Esq.	5	1 7	200	72·1	77·51	201	185
D	AMBLESIDE (U.D.C.)	The Surveyor	5	1 0	145	..	64·45	210	176
D	Ambleside (Market Square)	G. A. Johnston, Esq., M.D.	5	1 0	180	75·1	78·42	249	196
	Elterwater (Eltermere)	Miss C. Marshall	5	1 0	205	89·6	90·87	..	..
	Ambleside (Lesketh How)	Miss Benson		..	..	..	81·45	247	..
D	Rydal (The Stepping Stones)	The late G. G. Wordsworth, Esq.	5	1 3	190	80·6	84·13	243	207
D	Rydal (High Close)	F. E. T. Jones Balme, Esq.	8	0 9	553	83·3	86·84	244	201
D	Rydal (The Hall)	R. E. Porter, Esq.	5	1 0	354	82·1	87·32	247	204
D	New Dungeon Ghyll Hotel	Miss C. Marshall	5	1 1	310	110·2	110·93	232	221
	Mickleden	Miss C. Marshall	5	1 6	490	130·8	122·25	..	..
D	Grasmere (The Wray)	Miss G. M. Simpson	5	1 0	221	88·5	99·38	259	208
	3.—KENT. 188 sq. mi.								
D	Burton (Under Fell)	J. B. Hoyle, Esq.	5	0 9	225	42·3	45·49	211	166
D	Heversham (Plumtree Hall)	Miss M. C. Watson	5	0 8	115	45·7	49·37	234	169
D	Levens (Beathwaite)	Robert Bush, Esq.	5	1 0	105	..	52·16	237	183
D	Endmoor (Whinyeats)	H. Corder, Esq.	5	0 8	325	..	53·17	199	173
D	Killington Reservoir	L. M. & S. Rly. Co.	8	1 0	674	..	49·75	220	183
D	Kendal Gasworks	Kendal Gas & Water Co.	5	1 11	140	..	52·48	211	168
D	Kendal (Southfield)	J. W. Braithwaite, Esq.	8	1 0	150	50·0	54·81	227	177
D	Kendal (Highgate)	R. Rhodes, Esq.	5	1 3	176	50·6	50·68	227	174
D	Kendal (Fisher Tarn Res.) *new g.,new site*	Kendal Gas & Water Co.	5	1 0	742	..	56·51	230	183
D	Kendal (Ellergreen)	J. W. Cropper, Esq.	5	1 6	270	58·2	60·08	207	181
D	Kendal (Burneside)	W. E. Brown, Esq.	5	0 10	165	53·2	57·02	217	179
D	Kendal (Kent Lea)	R. J. Cragghill, Esq.	5	1 0	165	..	54·51	242	182
D	Kendal (Skelsmergh)	F. G. Linnell, Esq.	5	1 0	450	..	60·79	223	184
d	Kendal (Potter Fell)	J. Cropper & Co., Ltd.	5	2 0	750	70·6	86·38	(230)	(193)
d	Troutbeck (Dubbs Reservoir)	J. N. Leckie, Esq.	5	1 3	745	..	74·68	..	..
D	Kentmere Head Reservoir	Kendal Res. Commissioners.	5	1 6	920	..	103·33	232	218
	4.—LUNE. 122 sq. mi.								
D	Kirkby Lonsdale (Stoop Lane)	Mrs. H. E. Hollins	5	2 0	210	..	47·24	218	166
D	Barbon Manor	Lord Shuttleworth	5	1 3	650	..	48·56	211	183
D	Barbon (The Stores)	A. W. Ireland, Esq.	5	1 0	310	46·6	42·86	227	168
	Ravenstonedale (Railway Station)	J. T. Sanderson, Esq.	5	1 0	800	..	46·25	..	..
	5.—TEES. 40 sq. mi.								
M	Lunedale (Conny Pot)	G. R. Collinson, Esq., C.E.	5	1 0	1840	53·7	62·50	..	..

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH. (Area, 534 sq. mi.)

	1.—RHYMNEY. 39 sq. mi.								
d	Rumney (Witla Court)	Mrs. Edwards	5	1 0	175	39·4	34·15	..	..
d	Machen (Machen Quarry)	Machen Quarries, Ltd.	5	1 1	250	..	45·18	(186)	(153)

* Gauge moved from Council School in July.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
MONMOUTH—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—EBBW. 88 sq. mi.								
D Rogerstone (Rhiwderin)	Lady Forestier-Walker	5	1 0	250	..	36·91	164	133
D Rogerstone (Newport Golf Links)	Col. Blethyn T. Rees, C.E.	5	0 8	304	..	40·78	168	140
D Blackwood	D. H. Price, Esq.	5	0 10	630	..	36·57	193	145
D Abertillery (The Park)	S. E. Thomas, Esq.	5	1 0	700	57·2	56·98	199	155
d Tredegar Laboratory	Tredegar Iron & Coal Co. Ltd.	5	2 0	950	59·8	57·27	..	..
D Ebbw Vale (Iron Works)	Ebbw Vale Steel & Iron Co., Ltd.	8	1 0	902	56·6	56·22	204	161
3.—USK & C. 290 sq. mi.								
D Redwick	Col. Blethyn T. Rees, C.E.	5	1 3	24	..	27·83	162	122
D Portskewett (Sudbrook)	S. W. Moore, Esq., C.E.	8	1 0	51	..	25·21	152	117
D Newport (Stow Park)	A. W. Jupp, Esq., B.Sc.	5	1 0	200	..	35·94	175	142
D Newport (Hospital)	Medical Officer of Health	8	1 0	265	..	38·85	166	138
D Newport W.W. (Friar St. Yard)	Newport Corporation	5	6 0	32	..	34·15	176	134
D Newport W.W. (Ynis-y-fro Res.)	Newport Corporation	5	1 0	130	..	38·92	194	143
D Caerleon (The Croft)	Col. Blethyn T. Rees, C.E.	5	1 0	51	..	33·21	189	125
D Newport W.W. (Pant-yr-eos Res.)	Newport Corporation	5	1 0	485	..	46·49	190	141
D Newport W.W. (Llanvaches)	Newport Corporation	5	0 10	456	..	35·84	175	134
D Newport W.W. (Nantypridd)	Newport Corporation	5	1 0	500	..	39·22	179	137
D Chepstow (Itton Court)	Lady Curre	5	1 0	390	..	38·64	175	136
D Newport W.W. (Newchurch)	Newport Corporation	5	1 0	550	..	40·38	177	138
D Usk (Monmouth Agric. Instn.)	The Principal	5	1 0	70	..	37·68	168	132
D Abersychan (Glansychan)	G. W. James, Esq.	5	1 2	699	55·0	55·53	214	156
Goytre (Goytre Hall)	Mrs. Lionel Whitehead, O.B.E.	5	1 0	300	46·1	44·75	165	141
D Blaenavon (Estate Office)	E. J. John, Esq.	8	1 0	1144	55·1	56·13	166	146
D Abergavenny (Penpergwm)	Leslie R. Pym, Esq.	5	1 0	186	..	38·88	168	125
D Abergavenny (Plas Derwen)	Alan Whitehead, Esq.	5	1 3	200	..	40·85	187	130
D Abergavenny (Ty Clyd)	F. D. Llewelyn, Esq.	5	1 0	272	45·1	42·52	169	129
D Abergavenny (Richmond Road)	W. H. Edmunds, Esq.	8	1 0	256	40·6	38·65	163	122
D Abergavenny (Larchfield)	Dr. N. R. Phillips	5	1 0	240	37·5	37·01	163	121
D Abergavenny (The Chain)	Miss Baker-Gabb	5	1 0	310	..	39·44	181	125
D Grwyne Fawr (Coed Dias)	Miss Baker-Gabb	5	1 0	900	..	42·35	205	157
4.—WYE. 117 sq. mi.								
D Monmouth (Cornwall House)	P. G. Harvey, Esq., M.D.	5	0 11	55	..	29·24	159	106
D Trewyn	Mrs. C. C. Molyneux	5	0 10	500	..	35·97	176	131
D Grosmont	Miss D. K. Estcourt	5	1 0	420	..	34·22	181	131
GLAMORGAN. (Area, 808 sq. mi.)								
1.—LOUGHOR. 55 sq. mi.								
D Felindre (Blaenant Ddu)	J. Hassall, Esq., C.E.	5	1 3	346	..	55·99	207	171
D Felindre (Lower Lliw Res.)	J. Hassall, Esq., C.E.	8	1 3	426	..	52·72	208	169
D Felindre (Upper Lliw Res.)	J. Hassall, Esq., C.E.	8	1 3	599	..	62·50	212	176
2.—GOWER PENINSULA. 62 sq. mi.								
D Gower (Penrice Castle)	Mr. W. E. Harrison	5	2 0	18	..	44·05	206	160
d Penmaen (Cefn Mor)	Mrs. R. A. Bostock	5	1 6	300	41·5	37·26	..	..
D Clyne Castle	Adml. A. Walker-Heneage-Vivian	5	1 0	100	..	42·45	194	158
3.—TAWE. 47 sq. mi.								
D Swansea (Victoria Park) ..(+A)	The Town Clerk	8	1 0	32	..	40·60	204	154
D Clydach (Wernfadog)	W. J. P. Player, Esq.	8	1 0	400	..	53·50	222	177
D Ystalyfera (Wern House)	Miss L. Williams	5	1 6	240	64·8	68·38	201	182
4.—NEATH. 82 sq. mi.								
D Briton Ferry (Brynsiriol)	H. A. Clarke, Esq., C.E.	5	1 0	33	..	44·16	190	157
D Briton Ferry (Cefn Court)	H. A. Clarke, Esq., C.E.	5	1 0	503	47·7	47·14	196	165
D Neath (Cimla Reservoir)	H. A. Clarke, Esq., C.E.	5	1 0	360	..	45·77	199	160

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	GLAMORGAN—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—NEATH—(*con.*).								
D	Neath (Gnoll Reservoir)	H. A. Clarke, Esq., C.E.	5	1 0	204	52·1	48·44	201	158
D	Neath (Farm School)	A. L. Brackey, Esq	5	1 0	200	..	46·09	196	161
D	Neath (Bryn-Teg)	H. P. Lloyd, Esq.	5	0 9	100	..	48·71	206	160
d	Neath (Glynfelin)	T. Gibbins, Esq.	5	1 4	180	..	54·64	..	165
D	Rhondda W.W.(Llyn Fawr Res.) (*old*)	J. B. Hughes, Esq.	5	1 0	1220	88·6	98·82	214	178
D	Rhondda W.W.(Llyn Fawr Res.) *new g*	J. B. Hughes, Esq.	5	1 0	1220	..	101·05	214	181
	Pontardawe (Plas Cilybebyll)	J. H. P. Lloyd, Esq.	5	1 3	500	..	63·73	..	..
	5.—OGMORE & C. 350 sq. mi.								
D	Barry (Porth-y-Castell)	E. Sawyer, Esq.	5	1 0	150	..	33·43	184	134
	Barry W.W. (Merthyr Dyfan R.)	T. E. Franklin, Esq., C.E.	5	1 0	300	37·6	37·61	..	..
	Lower Penarth	E. I. Evans, Esq., C.E.	5	1 0	66	34·9	30·51	153	132
	Penarth Cemetery	E. I. Evans, Esq., C.E.	5	1 4	99	..	33·65	171	139
	Penarth (Council Offices)	E. I. Evans, Esq., C.E.	5	5 0	160	37·1	33·43	170	139
D	Dunraven Castle	J. P. Maitland, Esq.	5	1 0	80	..	34·96	179	149
D	Cardiff (Cogan Pumping Statn.)	N. J. Peters, Esq., C.E.	5	1 0	117	37·7	37·45	179	144
D	Cardiff (Ely Pumping Station)	N. J. Peters, Esq., C.E.	5	1 0	53	42·1	36·96	224	153
d	Fairwater (Glan Ely Hosp.)	Medical Superintendent	5	1 0	122	..	(38·20)	..	..
	Barry W.W. (Pencoedtre Res.)	T. E. Franklin, Esq., C.E.	5	1 0	200	..	39·88	..	..
D	Cardiff (St. Fagans Castle)	Capt. H. A. Pettigrew	5	1 0	100	48·5	43·20	192	148
D	Cowbridge (Pentre Meyrick)	F. E. P. Dunn, Esq.	5	1 0	300	..	42·72	192	157
D	Merthyr Mawr	Col. J. I. D. Nicholl	5	1 6	75	42·9	42·20	253	161
D	Bridgend (Eiw Graig)	H. J. Randall, Esq.	8	1 6	50	..	39·82	206	151
D	Bridgend (Waterworks)	E. W. Davies, Esq.	5	1 0	140	..	38·18	172	141
d	Pencoed (Senior School)	G. H. Cornish, Esq.	5	1 1	156	..	45·86	..	..
	Pencoed (Brynna)	E. W. Davies, Esq.	12	2 6	173	..	46·91	..	..
D	Pencoed (Heol-y-Cyw Sch.)	W. Morgan-Richards, Esq.	5	1 3	340	..	47·98	180	155
D	Port Talbot (Twyn-yr-hydd)	E. N. David, Esq.	5	1 3	180	42·6	42·57	203	155
D	Port Talbot (Groeswen Ganol)	A. Bishop, Esq.	8	1 0	51	40·3	37·26	194	154
D	Maesteg (Isolation Hospital)	G. E. Howells, Esq.	8	0 10	600	..	69·68	216	184
D	Pontycymmer	E. W. Davies, Esq.	8	1 0	560	..	78·69	219	179
D	Ogmore Vale	E. W. Davies, Esq.	8	0 6	600	..	78·46	187	173
	6.—TAFF. 157 sq. mi.								
D	Llandaff (Pwllmelyn Road) †	A. N. Selby, Esq.	5	1 0	105	42·2	40·91	193	151
D	Rhubina Reservoir	N. J. Peters, Esq., C.E.	5	1 0	336	48·1	46·35	186	152
	Pontypridd (Ty-Gwyn Res.)	Pontypridd & Rhondda Joint Water Bd.	5	1 0	720	..	57·18	..	..
D	Pontypridd (Treforest Central Sch.)	The Headmaster	5	1 0	350	..	60·05	187	162
D	Pontypridd (Lan Wood R.) *new s.*	Pontypridd & Rhondda Joint Water Bd.	5	1 6	300	..	57·48	192	158
D	Pontypridd (Llanfabon)	Pontypridd & Rhondda Joint Water Bd.	5	1 0	600	..	65·41	206	159
D	Ystradyfodwg (Tyntyla Hos.)	J. D. Jenkins, Esq., M.D.	5	1 0	590	60·1	55·27	200	157
D	Treharris Service Reservoir	A. J. Marshall, Esq., C.E.	5	1 3	765	52·3	52·33	181	155
D	Mountain Ash (Darranlas Res.)	W. G. Thomas, Esq., C.E.	5	0 11	540	63·0	55·45	195	155
D	Mountain Ash (Maesydderwen)	W. N. Morgan, Esq.	5	1 0	483	56·6	55·98	198	154
D	Treherbert (Tyn-y-waun) *old g*	O. Thomas, Esq.	5	1 0	801	87·0	93·52	213	184
D‖	Treherbert (Tyn-y-waun) *new g*	O. Thomas, Esq.	5	1 0	801	..	93·05	213	184
D	Rhondda (Castell Nos. Res.) *new g*	Pontypridd & Rhondda Joint Water Bd.	5	1 6	1060	..	88·07	218	179
D	Rhondda (Lluest Wen. Filter) *new g*	Pontypridd & Rhondda Joint Water Bd.	5	1 6	1200	..	80·45	225	178
D	Rhondda (Lluest Wen Res.)	Pontypridd & Rhondda Joint Water Bd.	5	1 6	1280	89·0	79·18	224	187
D	Merthyr Tydfil (Penybryn Filters)	A. J. Marshall, Esq., C.E.	5	1 3	937	54·0	55·77	225	174
D	Dowlais (Gwernllwyn)	W. Roberts, Esq.	5	1 6	1071	51·4	43·80	195	155
D	Dowlais (Garth Filter Beds)	A. C. Quiningborough, Esq.	5	1 0	1245	..	59·38	218	177

‖ Turf wall round gauge. † Gauge previously at West Hill.

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			in.	*ft. in.*	*ft.*	*in.*	*in.*		
	7.—RHYMNEY. 55 sq. mi.								
D	Cardiff (Roath Park)	A. A. Pettigrew, Esq.	5	1 0	51	41·6	37·33	185	148
D	CARDIFF (Penylan)	(+A) Medical Officer of Health	5	1 0	202	41·4	36·47	175	139
D	Cardiff (Heath Filters)	N. J. Peters, Esq., C.E.	5	1 0	132	41·3	39·02	186	143
D	Llanishen Reservoir	N. J. Peters, Esq., C.E.	5	1 0	155	39·4	35·62	178	141
D	Lisvane Reservoir	N. J. Peters, Esq., C.E.	5	1 0	150	37·4	32·65	176	133
D	Rhymney Bridge Reservoir	E. Watkin Edwards, Esq., C.E.	8	0 6	1150	56·8	63·92	215	193
	CARMARTHEN. (Area, 918 sq. mi.)								
	1.—TEIFI. 87 sq. mi.								
	2.—TOWY & C. 715 sq. mi.								
D	Kidwelly	The Borough Surveyor, Llanelly	5	1 6	60	..	44·68	199	166
D	Carmarthen (The Friary)	Dr. L. M. Bowen-Jones	5	1 5	62	48·3	42·62	202	167
D	Carmarthen (Priory Street)	Dr. A. Trevor Jones	5	1 0	60	..	48·75	175	153
D	Carmarthen (Model & Prac. Sch.)	C. W. Wilford, Esq.	5	1 5	65	50·0	52.14	221	169
D	Llandilo (Dynevor Castle)	Lord Dynevor	8	1 4	202	53·2	50·09	228	176
W	Llyn-y-fan Fach (Waen Sychlwch)	Llanelly W.W.	5	1 0	1647	83·2	105·68	..	..
D	Llyn-y-fan Fach (Nant Coch)	Llanelly W.W.	5	1 0	1172	74·5	87·30	221	198
W	Llyn-y-fan Fach (Bua'r Llyn)	Llanelly W.W.	5	1 0	1650	..	112·17	..	..
D	Llyn-y-fan Fach (Troed-y-Foel)	Llanelly W.W.	5	1 0	867	..	69·01	223	184
D	Llanddeusant (Pontcrynfe)	J. Thomas, Esq.	5	1 0	323	55·6	58·16	216	159
D	Breckfa	Capt. C. Joynson	5	1 0	290	..	67·18	233	187
D	Abergorlech	S. L. Davies, Esq.	5	1 0	245	..	60·60	227	179
D	Llandovery (Nantyrhogfaen)	D. T. M. Jones, Esq.	5	1 0	249	50·8	47·58	197	159
	3.—LOUGHOR & C. 104 sq. mi.								
D	Llanelly (Old Market Yard)	Borough Surveyor	5	12 0	35	44·6	42·01	189	154
D	Llanelly (Filter Beds)	Borough Surveyor	5	1 0	237	45·1	48·13	201	164
D	Llanelly (Cwmlliedi W.W.) *new g.*	Borough Surveyor	5	1 1	240	..	49·66	211	170
D	Llanelly (Upper Lliedi Res.) *new g.*	Borough Surveyor	5	0 11	290	..	52·96	212	172
W	Llannon Res.	Llanelly W.W.	5	1 0	860	..	62·35	..	..
	4.—TAWE. 7 sq. mi.								
	5. USK. 5 sq. mi.								
	6.—WYE.								
	PEMBROKE. (Area, 617 sq. mi.)								
	1.—TEIFI. 37 sq. mi.								
	2.—NEVERN & C. 91 sq. mi.								
D	Goodwick (Trenewydd)	Mrs. G. M. Johns	5	1 0	350	..	31·39	198	152
	3.—WEST COAST STREAMS. 82 sq. mi.								
	4.—CLEDDAU & C. 407 sq. mi.								
d	Pembroke (Stackpole Court)	Mr. F. G. Garlick	6	1 6	60	39·3	36·97	..	..
D	TENBY (The Priory)	The Town Clerk	8	1 0	64	40·9	37.59	201	158
D	ST. ANN'S HEAD (C. Guard Stn.)	Station Officer (M.O.)	8	1 0	142	35·3	31·77	203	144
D	Pembroke Dock (County School)	J. H. Garnett, Esq.	5	1 0	85	42·7	42·31	199	158
D	Pembroke Dock (Aerodrome)	Meteorological Officer	8	1 0	40	..	38·51	206	160
d	Milford Haven (County School)	C. Davies, Esq.	5	6 0	160	..	39·23	..	..
D	Saundersfoot (Hean Castle)	Lord Merthyr	5	1 0	206	36·3	35·52	184	154
D	Saundersfoot (Stepaside, Merryvale)	J. C. Pickering, Esq.	5	1 0	105	..	39·93	204	161
D	Narberth (Cwmderwen)	Mrs. Allen	5	1 0	300	..	49·33	224	176
	Haverfordwest (Picton Castle)	Sir C. E. G. Philipps, Bt.	5	0 10	138	46·8	46·26	..	..
D	Haverfordwest (Cresborough)	H. L. Puxley, Esq.	5	1 0	50	..	43·90	208	162
D	HAVERFORDWEST (Portfield)	The late J. W. Phillips, Esq.	5	1 0	250	44·8	43·48	192	150
d	Mynachlogddû (Cl. School)	E. T. Lewis, Esq.	5	1 4	630	60·7	71·82	..	..

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CARDIGAN. (Area, 688 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—DOVEY. 20 sq. mi.								
D Glandyfi (Ynyshir Hall)	W. H. Mappin, Esq.	5	1 0	45	..	41·67	233	183
2.—YSTWYTH & C. 347 sq. mi.								
Llanafan (Blaenddol)	R. Roberts, Esq. for M.O.	.	..	..	..	48·10	..	..
D Llanafan (Crosswood Park)	The Earl of Lisburne	5	1 0	201	..	38·73	192	177
D Yspytty-ystwyth (Hafod)	T. J. Waddingham, Esq.	5	1 3	580	..	51·97	234	197
D Ponterwyd	J. H. Edwards, Esq.	5	1 5	800	..	58·66	208	198
D Aberystwyth (Corporation Yard)	The Town Clerk	8	1 0	12	..	33·92	222	174
D Aberystwyth (North Parade)	Dr. A. Thomas	8	2 6	16	..	34·13	219	164
D Aberystwyth (P.B.S.)	Prof. R. G. Stapledon, M.A.	5	1 0	452	..	39·68	240	175
D Talybont (Letty-evan-hen)	Prof. R. G. Stapledon, M.A.	5	1 0	950	..	42·24	216	183
3.—TEIFI. 260 sq. mi.								
D Llechryd (Castle Malgwyn)	Mrs. Gower	5	1 0	50	..	35·83	187	162
D Cardigan (Plas Llangoedmore)	D. Berrington Davies, Esq.	5	1 0	120	..	36·01	216	164
Lampeter (Falcondale)	Mr. A. R. Taylor	5	1 0	498	..	51·73	229	185
4.—TOWY. 46 sq. mi.								
d Abergwesyn (Nantneuadd)	W. Roberts, Esq., for M.O.	5	1 0	1000	..	67·50	..	154
M Tregaron (Maes-y-bettws)	T. Jones, Esq., for M.O.	5	1 0	910	..	59·50	..	..
5.—WYE. 15 sq. mi.								
M Birmingham W.W. (Llyn Gynon)	J. W. Wilkinson, Esq., C.E.	5	1 0	1500	..	71·05	..	..
M Birmingham W.W. (Bwlchyrhendre)	J. W. Wilkinson, Esq., C.E.	5	1 0	1585	..	69·15	..	..
M Birmingham W.W. (Claerddu)	J. W. Wilkinson, Esq., C.E.	5	1 0	1470	..	72·55	..	..
M Birmingham W.W. (Gwngu)	J. W. Wilkinson, Esq., C.E.	5	1 0	1490	..	66·40	..	..
d Birmingham W.W. (Abergwngu)	J. W. Wilkinson, Esq., C.E.	5	1 0	1150	..	65·55	..	195
M Plynlimon	J. Thomas, Esq., for M.O.	5	1 0	1630	108·0	90·70	..	..
BRECON. (Area, 733 sq. mi.)								
1.—TOWY. 17 sq. mi.								
2.—TAWE. 41 sq. mi.								
D Ystradgynlais (Yniscedwyn Ho.)	G. Coleman, Esq.	5	0 9	232	65·2	59·65	197	174
D Swansea W.W. (Nantyrwydd)	J. Hassall, Esq., C.E.	5	0 10	908	90·8	78·93	224	189
3.—NEATH. 48 sq. mi.								
D Ystradfellte Reservoir	The Engineer	5	1 0	1147	85·4	85·99	221	181
4.—TAFF. 48 sq. mi.								
D Aberdare (Nanthir Reservoir)	I. A. Bryant, Esq., C.E.	5	1 0	860	59·6	59·56	233	179
D Taf Fechan (Pontsticill) No. 12	A. C. Quiningborough, Esq.	5	1 0	1031	..	57·87	240	195
M Taf Fechan (Pontsticill West) 14	A. C. Quiningborough, Esq.	5	1 0	1254	..	52·25	..	..
D Cardiff W.W. (Llwynon Res.)	N. J. Peters, Esq., C.E.	5	1 0	860	62·7	63·67	224	178
w Cardiff W. W. (Nant Ffynnon)	N. J. Peters, Esq., C.E.	5	1 0	1352	..	75·03	..	..
M Cardiff W.W. (Garn Ddu)	N. J. Peters, Esq., C.E.	5	1 0	1340	..	73·56	..	..
w Cardiff W.W. (Pont-ar-daf)	N. J. Peters, Esq., C.E.	5	1 0	850	67·9	67·66	..	..
D Cardiff W.W. (Garw-nant)	N. J. Peters, Esq., C.E.	5	1 0	1100	..	75·96	233	187
w Cardiff W.W. (Nant-Gwineu)	N. J. Peters, Esq., C.E.	5	1 0	1200	..	67·47	..	..
w Cardiff W.W. (Cefn Gougarn)	N. J. Peters, Esq., C.E.	5	1 0	1362	..	77·82	..	..
w Cardiff W.W. (Llysiog)	N. J. Peters, Esq., C.E.	5	1 0	1080	..	68·95	..	..
D Taf Fechan (Pentwyn Res. S.)	A. C. Quiningborough, Esq.	5	1 0	1120	..	67·94	238	196
Taf Fechan (Pentwyn Res. N.)	A. C. Quiningborough, Esq.	5	1 0	1090	..	66·46	..	..
w Cardiff W.W. (Twyn Gareg)	N. J. Peters, Esq., C.E.	5	1 0	1501	..	92·00	..	..
M Cardiff W.W. (Blaen Nant Ddu)	N. J. Peters, Esq., C.E.	5	1 0	1550	..	72·27	..	..
M Cardiff W.W. (Nant Ddu)	N. J. Peters, Esq., C.E.	5	1 0	1560	..	71·99	..	..
D Cardiff W.W. (Cantref R.) No. 2	N. J. Peters, Esq., C.E.	5	1 0	1080	69·8	73·18	224	192

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	BRECON—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—TAFF—(*con.*).								
D	Cardiff W.W.(Beacons Res.) No. 6	N. J. Peters, Esq., C.E.	5	1 0	1340	79·3	83·51	235	197
W	Cardiff W.W. (Nant Penig) No. 3	N. J. Peters, Esq., C.E.	5	1 0	2000	85·8	101·09	..	..
M	Cardiff W.W. (Blaen Nant Crew)	N. J. Peters, Esq., C.E.	5	1 0	2090	..	68·63	..	..
D	Cardiff W.W. (Storey Arms Field)	N. J. Peters, Esq., C.E.	5	1 0	1430	..	93·01	235	203
W	Cardiff W.W.(Blaen Taf Fawr) *new g*	N.J. Peters, Esq., C.E.	5	1 0	1430	86·8	88·64	..	..
D	Taf Fechan (Neuadd Rs.) No. 1	A. C. Quiningborough, Esq.	5	1 0	1462	*70·3*	76·29	236	203
D	Taf Fechan (Neuadd Rs.) No. 1A	A. C. Quiningborough, Esq.	5	1 0	1423	..	86·93	236	207
D	Taf Fechan (Neuadd Rs.) No. 4	A. C. Quiningborough, Esq.	5	1 0	1487	*82·7*	86·33	236	207
D	Taf Fechan (Neuadd Rs.) No. 11	A. C. Quiningborough, Esq.	5	1 0	1524	68·3	78·26	236	198
D	Taf Fechan (Neuadd Rs.) No. 11A	A. C. Quiningborough, Esq.	5	1 0	1520	..	85·88	236	208
M	Taf Fechan (Neuadd Rs.) No. 2	A. C. Quiningborough, Esq.	5	1 0	1993	*72·7*	78·85	..	..
M	Taf Fechan (Neuadd Rs.) No. 5	A. C. Quiningborough, Esq.	5	1 0	1515	*81·1*	77·75	..	..
M	Taf Fechan (Neuadd Rs.) No. 10	A. C. Quiningborough, Esq.	5	1 0	1700	72·7	76·35	..	..
M	Taf Fechan (Neuadd Rs.) No. 3	A. C. Quiningborough, Esq.	5	1 0	1843	60·6	72·00	..	..
M	Taf Fechan (Neuadd Rs.) No. 7	A. C. Quiningborough, Esq.	5	1 0	2017	*81·1*	101·95	..	..
M	Taf Fechan (Neuadd Rs.) No. 8	A. C. Quiningborough, Esq.	5	1 0	1723	*85·7*	92·00	..	..
M	Taf Fechan (Neuadd Rs.) No. 8A	A. C. Quiningborough, Esq.	5	1 0	1780	..	84·00	..	..
M	Taf Fechan (Neuadd Rs.) No. 6	A. C. Quiningborough, Esq.	5	1 0	2099	*92·4*	101·25	..	..
	5.—RHYMNEY. 2 sq. mi.								
	6.—EBBW. 7 sq. mi.								
D	Ebbw Vale W.W. (Llangynidr) 1	P. I. Davies, Esq., C.E.	5	1 0	1413	58·8	66·00	191	181
D	Ebbw V. W.W.(Llangynidr) W 3	P. I. Davies, Esq., C.E.	5	1 0	1468	..	66·05	191	180
D	Ebbw V. W.W. (Llang'ndr) NW2	P. I. Davies, Esq., C.E.	5	1 0	1471	..	65·52	191	176
D	Ebbw Vale W.W. (Carno, S.)	P. I. Davies, Esq., C.E.	5	1 0	1262	..	66·33	191	180
D	Ebbw Vale W.W. (Carno, E.)	P. I. Davies, Esq., C.E.	5	1 0	1391	..	64·48	191	178
D	Ebbw Vale W.W. (Carno, W.)	P. I. Davies, Esq., C.E.	5	1 0	1412	..	66·63	191	177
D	Ebbw Vale W.W. (Carno, N.)	P. I. Davies, Esq., C.E.	5	1 0	1491	..	64·80	191	180
	7.—USK. 299 sq. mi.								
	Torpantau (Darenfawr)	Newport Corporation	5	1 0	1172	..	74·40	..	..
	Torpantau (Ynysposte)	Newport Corporation	5	1 0	741	..	66·03	..	..
	Torpantau (Blaen-caer-fanell)	Newport Corporation	5	1 0	1584	..	68·85	..	..
D	Talybont (Ffynonwen)	Newport Corporation	5	1 0	610	..	57·81	204	168
	Talybont (Pwll Ifor)	Newport Corporation	5	1 0	1224	..	65·25	..	..
D	Talybont (Aberclydach)	G. Garnons Williams, Esq.	8	0 9	520	..	47·79	181	148
D	Crickhowell (Gwernvale)	E. Pirie Gordon, Esq.	5	1 0	393	*41·5*	36·99	192	136
D	Crickhowell (Glanusk Park)	Lord Glanusk	5	1 0	290	..	40·41	220	134
M	Swansea W.W.(Cray Rs.) No. 2	J. Hassall, Esq., C.E.	5	1 0	1019	..	89·97	..	..
D	Swansea W.W.(Cray Rs.) No.1 (+A)	J. Hassall, Esq., C.E.	5	1 0	1043	..	70·31	230	183
M	Cray Post Office	J. A. Jones, Esq., for M.O.	5	1 0	930	..	69·50	..	..
D	Talybont (Ashford)	J. Henderson, Esq.	5	1 0	360	..	43·31	188	139
M	Talybont (Cwy Parc)	Rev. D. W. G. Bartlett	5	1 6	480	..	37·87	..	..
D	Llanfrynach (Ty-mawr)	Miss M. D. de Winton	5	1 0	450	..	39·06	200	159
D	Crickhowell (Dan-y-Parc)	R. G. C. C. Sandeman, Esq.	8	1 0	230	..	38·78	188	127
M	Crickhowell (Cwmdu Rectory)	Rev. W. A. Davies	5	1 0	430	..	27·67	..	..
M	Crickhowell (Tal-y-maes)	W. Jones, Esq., for M.O.	5	1 0	1250	..	45·35	..	..
d	Trecastle (Blaenau-hydfer)	Mrs. Morgan, for M.O.	5	1 0	970	..	71·76	..	..
D	Brecon (Tairbull School)	I. L. Price, Esq.	5	1 0	660	52·0	52·38	200	171
D	Brecon (Ffrwdgrech)	Capt. J. D. D. Evans	8	1 1	570	..	45·57	190	158
d	Brecon (Mount St. Sch. Gdns.)	The Headmaster	5	0 11	500	..	40·19	..	..
D	Battle (Penoyre)	G. E. Weekes, Esq.	5	1 0	830	..	39·92	226	168
D	Black Mountains (Blaen-y-cwm)	J. F. Jupp, Esq., C.E.	5	1 0	1423	..	52·80	193	166
D	Black M. (Dam Site Grwyne Fawr)	J. F. Jupp, Esq., C.E.	5	1 0	1620	..	55·99	193	167
M	Upper Chapel (Tymawr)	Mrs. Probert	5	1 0	945	46·9	44·75	..	..

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	BRECON—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	8.—WYE. 271 sq. mi.								
D	Cathedine Rectory	Rev. D. H. Picton, for M.O..	5	1 6	650	..	29·69	159	121
D	Talgarth (Arfryn)	F. Morgan, Esq.	5	1 0	450	*33·2*	28·48	170	144
D	Talgarth (Pontiwal Sanatorium)	Dr. H. E. Watson	5	0 10	500	..	27·66	206	136
D	Glasbury (Gwernyfed Park)	H. H. Miller, Esq.	5	1 0	375	31·5	26·54	165	123
M	Abergwesyn (Trallwn)	J. Felix, Esq., for M.O.	5	1 0	1000	..	80·00	..	..
	Llanafanfawr School	W. D. Swan, Esq.	5	0 8	800	..	50·39	..	..
M	Newbridge (Pengraig)	Miss A. Williams, for M.O...	5	1 0	960	56·8	57·00	..	..
D	Newbridge (Llysdinam)	Sir C. Venables Llewelyn, Bt.	5	1 3	646	41·2	39·03	204	160
M	Birmingham W.W. (Cors-yr-hwch)	J. W. Wilkinson, Esq., C.E..	5	1 0	1775	..	95·22	..	..
M	Birmingham W.W. (Esgair Ceiliog)	J. W. Wilkinson, Esq., C.E..	5	1 0	1560	..	81·85	..	..
M	Birmingham W.W. (Llyn-Carw)	J. W. Wilkinson, Esq., C.E..	5	1 0	1775	..	87·06	..	..
M	Birmingham W.W. (Nant-y-car)	J. W. Wilkinson, Esq., C.E..	5	1 0	1545	..	81·31	..	..
M	Birmingham W.W. (Arban)	J. W. Wilkinson, Esq., C.E..	5	1 0	1500	..	78·25	..	..
M	Birmingham W.W. (Tyn-y-pant)	J. W. Wilkinson, Esq., C.E..	5	1 0	1320	63·2	64·30	..	..
M	Birmingham W.W. (Esgair Garthen)	J. W. Wilkinson, Esq., C.E..	5	1 0	1590	..	82·45	..	..
D	Birmingham W.W. (Elan Village)	J. W. Wilkinson, Esq., C.E..	5	1 0	700	..	54·91	225	182
	RADNOR. (Area, 474 sq. mi.)								
	1.—WYE. 424 sq. mi.								
D	Glasbury-on-Wye (Hampton Sc.)	D. W. Lloyd, Esq.	5	1 0	274	33·9	27·27	170	131
D	Llyswen (Llanstephan Ho. Gdns.)	Lady Phillips	5	1 3	440	..	32·49	189	135
D	Builth (Cefndyrys)	Capt. E. A. Thomas	5	1 10	740	41·5	34·88	184	150
	Builth Rd. (St. John's Vicarage)	Rev. Canon J. L. Bryans...	5	1 0	550	41·9	38·81	218	169
M	New Radnor (Gryliss)	H. Langston, Esq.	5	1 0	1200	..	38·39	..	..
d	New Radnor (Harpton Crt. Gdns.)	The Head Gardener	5	0 9	700	..	38·86	..	145
	New Radnor	John Langston, Esq.	5	1 0	750	44·1	38·06	204	..
D	Llandrindod Wells	Rev. J. L. Herbert	5	1 0	712	39·3	42·65	214	162
D	Birmingham W.W. (Tyrmynydd)	J. W. Wilkinson, Esq., C.E..	5	1 0	832	62·1	61·31	237	183
D	Birmingham W.W. (Nantgwillt)	J. W. Wilkinson, Esq., C.E..	5	1 0	840	63·2	59·94	243	188
M	Birmingham W.W. (Dwfnant)	J. W. Wilkinson, Esq., C.E..	5	1 0	1050	67·8	(68·39)	..	..
M	Birmingham W.W. (Esgair Gader) 2	J. W. Wilkinson, Esq., C.E..	5	1 0	1500	68·9	74·10	..	..
M	Birmingham W.W. (Tynllidiart)	J. W. Wilkinson, Esq., C.E..	5	1 0	1006	..	63·79	..	..
d	Birmingham W.W. (Claerwen)	J. W. Wilkinson, Esq., C.E..	5	1 0	1250	65·2	(68·25)	..	202
D	Birmingham W.W. (Tynant)	J. W. Wilkinson, Esq., C.E..	5	1 0	1020	63·6	65·58	.246	193
	Rhayader (East Street)	R. Ashton, Esq.	5	1 0	700	..	45·56	..	..
M	Birmingham W.W. (Cerigllwydion)	J. W. Wilkinson, Esq., C.E..	5	1 0	1710	74·8	73·55	..	..
M	Birmingham W.W. (Pen-y-gareg)	J. W. Wilkinson, Esq., C.E..	5	1 0	1500	55·2	52·31	..	..
M	Birmingham W.W. (Pen-y-gareg) 2	J. W. Wilkinson, Esq., C.E..	5	1 0	1540	43·9	55·09	..	..
M	Birmingham W.W. (Bryn Hir)	J. W. Wilkinson, Esq., C.E..	5	1 0	1470	..	74·55	..	..
M	Birmingham W.W. (Abercaethon)	J. W. Wilkinson, Esq., C.E..	5	1 0	1240	..	(67·05)	..	..
M	Birmingham W.W. (Calettwr)	J. W. Wilkinson, Esq., C.E..	5	1 0	1490	71·1	(77·40)	..	..
M	Birmingham W.W. (Figin) No. 2.	J. W. Wilkinson, Esq., C.E..	5	1 0	1700	83·3	81·95	..	..
M	Birmingham W.W. (Aberhenllan)	J. W. Wilkinson, Esq., C.E..	5	1 0	1070	58·8	64·15	..	..
M	Llanbister (Llananno)	Mrs. A. Jones, for M.O.	5	1 0	900	45·1	42·00	..	..
	2.—SEVERN—Right Bank Tributaries. 50 sq. mi.								
	MONTGOMERY. (Area, 797 sq. mi.)								
	1.—DOVEY. 120 sq. mi.								
D	Machynlleth (Plas Llwyn Gwern)	The Hon. R. E. B. Beaumont	5	0 9	150	..	74·47	221	186
	Cemmaes (Glyn Orig)	F. C. Best, Esq.	5	1 0	125	..	53·72	..	..
	2.—YSTWYTH. 7 sq. mi.								
	3.—WYE. 37 sq. mi.								
	Llangurig (Dernol)	E. A. Powell, Esq. for M.O.	.	..	..	..	54·77	..	..
	4.—SEVERN—Right Bank Tributaries. 154 sq. mi.								
D	Llanidloes (Llidiartywaen Sch.)	G. E. Edwards, Esq.	5	1 3	1150	..	41·37	238	171
d	Llandinam (Broneirion)	D. Humphreys, Esq.	5	1 3	450	..	33·49	..	144
d	Newtown (Penarth Weir)	Canal Engr., L M & S Rly...	8	1 0	321	35·0	33·53	(208)	(147)
D	Montgomery (Oakfield)	Dr. R. E. Game Phillips....	5	1 0	450	..	26·46	205	147

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934: Rainfall.	1934: Days with ·01 in. or more.	1934: Days with ·04 in. or more.
MONTGOMERY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5. SEVERN—Left Bank Tributaries. 479 sq. mi.								
D Berriew (Brithdir Hall)	Mrs. F. E. Marston	5	1 0	350	30·7	29·16	241	155
D Berriew (Glyncogen)	H. H. Haines, Esq.	5	1 0	415	..	30·43	207	155
D Welshpool (County School)	The Headmaster	5	1 0	254	30·1	24·78	185	148
D Welshpool (Fron Llwyd)	Col. G. B. D. Harrison	5	1 3	500	33·7	29·95	208	162
D Llanfyllin (Llwyn)	Major W. M. Dugdale	5	0 10	450	..	35·88	199	160
d Llandysilio Rectory	Rev. H. G. Dickinson	5	1 6	250	..	20·71	..	..
D Lake Vyrnwy	J. E. Bradley, Esq.	5	0 7	770	54·0	57·48	222	197
Lake Vyrnwy (Bryn Gwyn)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1311	..	56·23	..	..
D Lake Vyrnwy (Bank Cynon Isaf))	Lt.-Col. F. Hibbert, C.E.	8	1 0	750	55·3	51·23	214	173
Lake Vyrnwy (Ty Uchaf)	Lt.-Col. F. Hibbert, C.E.	8	1 0	860	..	53·94	..	..
Lake Vyrnwy (Heol-y-ffridd) 1	Lt.-Col. F. Hibbert, C.E.	8	1 0	913	..	66·23	..	..
Lake Vyrnwy (Heol-y-ffridd) 2	Lt.-Col. F. Hibbert, C.E.	8	1 0	830	..	63·49	..	..
Lake Vyrnwy (Tyn-y-ffridd)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1010	..	57·47	..	..
Lake Vyrnwy (Lluestwen)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1667	..	69·23	..	..
Lake Vyrnwy (Llwynrhiw)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1428	..	75·49	..	..
Lake Vyrnwy (Craig-y-Gribin)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1422		61·13	..	..
Lake Vyrnwy (Carreg Goch)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1750	..	64·54	..	..
Lake Vyrnwy (Fawnog)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1315	55·7	53·02	..	..
FLINT. (Area, 256 sq. mi.)								
1.—DEE. 198 sq. mi.								
D Hanmer (Gredington)	Lady Kenyon	5	1 0	300	30·4	25·00	171	136
D Overton (Fairleigh)	Dr. B. J. E. Wright	5	1 0	220	26·8	23·19	205	135
w Buckley (Hawarden W.W.)	W. Simmons, Esq.	5	1 0	540	28·7	25·30	..	..
D Hawarden (County School)	C. F. Williams, Esq.	5	0 9	257	27·2	23·10	186	127
D Mold (Alun County School)	The Headmaster	5	1 0	365	..	25·52	194	146
D Mold (Mount Pleasant)	R. F. Baker, Esq., C.E.	5	1 0	503	..	25·99	207	148
D Cilcain (No. 2 Reservoir) *old g.*	W. Simmons, Esq.	5	1 0	785	..	31·50	202	161
w Cilcain (No. 4 Reservoir) *new g.*	W. Simmons, Esq.	5	1 0	900	..	32·64	..	..
D Northop (Soughton Hall)	Sir John Bankes	5	1 0	418	32·1	28·46	207	165
D Cilcain (Cilcen Hall)	W. B. Yates, Esq., C.B.E.	5	1 0	650	29·7	28·85	214	154
D Connah's Quay (Mold Road)	R. F. Baker, Esq., C.E.	5	1 0	43	..	23·41	188	133
D Connah's Quay (Pengwladys)	R. F. Baker, Esq., C.E.	5	1 0	231	..	22·28	188	129
D Hawarden Bridge	Messrs. J. Summers & Sons.	8	1 0	17	24·3	21·79	188	129
D Sealand (Aerodrome) (+A)	Meteorological Officer	8	1 0	16	26·0	20·95	184	121
D Mostyn	J. E. Holgate, Esq.	5	3 2	15	..	27·78	180	130
2.—CLWYD. 51 sq. mi.								
D Bodfari (Nantlys)	D. F. Pennant, Esq., D.L.	5	1 5	178	27·4	24·62	184	142
D St. Asaph (St. Beuno's Coll.)	The Procurator	5	1 0	479	..	29·14	254	159
Dyserth Castle	J. B. Price, Esq.	5	1 0	350	..	20·36	..	..
D Rhyl (Sewage Works) (+A)	Medical Officer of Health	8	1 0	31	25·8	21·48	186	128
D Prestatyn (St. Chads)	D. N. Payne, Esq.	8	1 0	60	..	24·66	182	133
D Prestatyn	Clerk to the U.D.C.	5	1 0	18	..	21·19	165	117
3.—SEVERN—Left Bank Tributaries. 7 sq. mi.								
DENBIGH. (Area, 668 sq. mi.)								
1.—DEE. 278 sq. mi.								
Glynceiriog (Plas Nantyr)	C. B. C. Storey, Esq.	6	1 0	1450	..	44·58	..	..
D Chirk Castle Gardens	Lord Howard de Walden	5	1 0	630	..	29·65	167	136
D Llangollen (Oakleigh)	Miss J. B. Jagger	5	0 11	318	..	31·29	196	147
Llangollen (Vivod)	Capt. W. Best	5	2 6	640	..	30·70	181	142
D Ruabon (Trevor Hall)	E. Lloyd Edwards, Esq.	5	1 0	500	30·9	30·89	170	161
Wrexham W.W. (Mountain Lo.)	J. A. Davies, Esq.	8	0 9	1100	..	31·89	..	..
d Wrexham W. W. (Ty Mawr Res.)	J. A. Davies, Esq.	5	0 9	805	*39·1*	33·40	(208)	(155)
D Wrexham W.W.(Pack Saddle Res.)	J. A. Davies, Esq.	5	0 9	376	32·0	29·88	213	152
d Wrexham W.W. (Cae Llwyd Res.)	J. A. Davies, Esq.	8	0 9	918	*41·1*	33·75	(208)	(158)
d Wrexham W.W. (Cae Llwyd Res.)	J. A. Davies, Esq.	5	0 9	918	*40·5*	33·58	(210)	(157)
Wrexham W.W. (Erwau)	J. A. Davies, Esq.	5	0 9	1200	..	31·79	..	..
Wrexham W.W. (Minera)	J. A. Davies, Esq.	5	0 9	1400		32·26	..	..

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

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DENBIGH—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—DEE—(*con.*).								
D Wrexham (Beechley Road)	O. L. Jones, Esq.	2	1 0	278	..	31·21	174	146
D Pendinos Reservoir	Brymbo Water Co.	5	0 6	1249	..	37·24	211	176
D Nantyffrith Reservoir	Brymbo Water Co.	5	0 6	1040	..	34·10	212	176
D Llanfihangel-glyn-myfyr	R. F. Baker, Esq., C.E.	5	1 0	898	..	41·61	224	180
D R. Alwen (Alwen Filter House)	R. F. Baker, Esq., C.E.	5	1 0	1100	..	44·64	224	177
D R. Alwen (Alwen Dam)	R. F. Baker, Esq., C.E.	5	1 0	1189	..	48·55	224	182
D R. Alwen (Hafod-llan-isaf) No. 2	R. F. Baker, Esq., C.E.	5	1 0	1172	39·2	32·43	224	175
D R. Alwen (Hafod-llan-isaf) No. 3	R. F. Baker, Esq., C.E.	5	1 0	1169	36·8	43·55	225	180
W Pentre Voelas (Nant Heilyn)	R. F. Baker, Esq., C.E.	5	1 0	1225	..	46·75	..	..
D R. Brenig (Hafod-yr-Onen)	R. F. Baker, Esq., C.E.	5	1 0	1175	..	39·66	219	178
M Nantglyn (Pant-y-maen)	R. F. Baker, Esq., C.E.	8	1 0	1320	..	46·73	..	..
M Llyn Bran	R. F. Baker, Esq., C.E.	8	1 0	1428	..	51·17	..	..
Llanferres (Glanrafon)	Miss A. Simpson	5	1 4	625	..	29·24	..	..
2.—CLWYD & C. 267 sq. mi.								
Derwen (Ty Cerrig)	Edgar Billson, Esq.	5	1 0	1030	..	35·97	..	..
D Clawdd-newydd No. 2	R. F. Baker, Esq., C.E.	5	1 0	983	..	35·52	189	162
D Clawdd Newydd (Foel Fach)	Forestry Commission	.	..	1150	..	35·27	202	150
W Ruthin (Corwen Road)	R. F. Baker, Esq., C.E.	5	1 0	234	..	25·23	..	..
D Ruthin (Bwlch Tunnel)	R. F. Baker, Esq., C.E.	5	1 0	908	..	29·29	187	163
d Llyn Aled (Bryniaw)	O. P. Cronshaw, Esq.	5	1 0	1250	..	45·63	..	..
d Llyn Aled (Aled Isaf Res)	O. P. Cronshaw, Esq.	5	1 0	1170	..	48·29	..	..
D Llangynhafal (Plâs Drâw)	Major R. Bromhead	5	1 0	419	31·1	28·72	211	157
d Gwytherin Council School	C. E. Jones, Esq.	5	1 1	730	50·1	43·24	..	..
D Denbigh (Mental Hospital)	W. Barker, Esq.	5	1 0	316	..	26·94	214	160
D Llangwyfan (N. Wales San.)	Medical Superintendent	6	2 0	460	..	26·15	192	145
D Llangwyfan (N. Wales San.) farm†	Medical Superintendent	5	1 0	460	..	26·40	192	143
D Denbigh (Garn)	J. D. W. Griffith, Esq.	5	1 0	447	32·7	29·00	202	148
d Trefnant School	The Head Teacher	5	1 0	300	..	27·80	..	..
M Llanefydd (Dolwen Res., S.)	O. P. Cronshaw, Esq.	5	1 0	600	..	27·72	..	..
M Llanefydd (East)	O. P. Cronshaw, Esq.	5	1 0	570	..	27·26	..	..
D Llanefydd (Plas Uchaf Res.)	O. P. Cronshaw, Esq.	5	1 0	485	..	28·84	214	154
D Llanefydd (Glascoed Res.)	O. P. Cronshaw, Esq.	5	1 0	360	..	22·90	186	134
St. Asaph (Wigfair)	Col. H. C. Ll. Howard, C.M.G., D.S.O.	8	1 1	250	..	21·10	..	..
D Abergele (Sea Road)	Sydney Wilson, Esq.	5	1 0	25	28·4	22·89	175	132
D Colwyn Bay (Eirias Park)	Borough Surveyor	5	1 0	118	31·1	25·00	204	122
3.—CONWAY—4 sq. mi.								
D Pentre Voelas (Voelas Hall)	Mr. T. N. Dickie	5	1 0	640	..	54·83	230	190
D Bettws-y-Coed (Rhydycrena)	Mrs. G. Bovill	5	1 0	50	..	49·63	227	184
4.—SEVERN—Left Bank Tributaries. 47 sq. mi.								
D Llansilin (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1 0	1095	..	31·21	205	155
MERIONETH. (Area, 661 sq. mi.)								
1.—DEE. 218 sq. mi.								
D Llandderfel (Palé Gardens)	Sir H. B. Robertson	8	1 0	606	48·2	45·00	210	177
Trawsfynydd (Cwm Prysor)	N. Wales Power Co., Ltd.	5	1 3	1300	..	83·72	..	..
d Corwen (Rûg Gardens)	Col. R. Vaughan Wynn	8	1 2	500	36·2	35·13	..	152
W Derwen (Minffordd)	R. F. Baker, Esq., C.E.	5	1 0	971	..	35·03	..	..
2.—CLWYD. 7 sq. mi.								
3.—GLASLYN. 92 sq. mi.								
Trawsfynydd (Tyn Twll)	N. Wales Power Co., Ltd.	5	1 3	750	..	82·60	..	..
Trawsfynydd (Darn Gae)	N. Wales Power Co., Ltd.	5	2 0	950	..	69·01	..	..
Llyn Tecwyn Uchaf	Portmadoc Water Co.	8	1 1	360	..	50·01	..	..
D Minffordd (Plas Penrhyn)	Mrs. H. Kitching	5	0 9	220	..	50·39	217	181

† Previously called N. Wales Sanatorium.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
MERIONETH—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—GLASLYN—(*con.*).								
Pandyrddrwyryd (Main Dam)	N. Wales Power Co.	.	..	600	..	72·99	..	..
D Minffordd (Hafod-Cae-Maen)	G. H. C. Haigh, Esq.	5	1 0	100	50·5	52·16	236	185
Tyddym-y-Gareg (Hendre Mur)	N. Wales Power Co.	.	..	675	..	69·23	..	..
D Tan-y-bwlch (Plas Gardens)	Mr. F. W. Dawe	5	1 0	55	..	67·37	234	188
D Tan-y-bwlch (Dol-y-Moch)	Mrs. Howland Jackson	5	1 0	55	..	(68·93)	(211)	(180)
D Festiniog (Hafod Fawr)	Forestry Commission	8	1 4	1000	74·6	66·51	219	201
D Blaenau Festiniog (Oakeley Q.)	J. Lloyd Humphreys, Esq.	5	1 0	1100	97·1	102·68	228	208
D Blaenau Festiniog (Llechwedd Q.)	Messrs. J. W. Greaves & Sons	5	1 0	700	..	111·58	256	225
4.—MAWDDACH & C. 262 sq. mi.								
D Towyn (Ynys-y-Maengwyn)	R. Corbett, Esq.	5	1 0	14	..	42·22	209	168
D Towyn (Bronffynnon) *new g.*	Dr. T. Henry Jones	5	1 0	180	..	42·58	222	164
D Towyn (Peniarth)	Mrs. Wynne	8	1 0	25	..	50·87	205	185
Dolgelley (Bronygader)	Lt.-Col. A. E. Jelf-Reveley	5	1 0	200	..	74·94	232	193
D Dolgelley (Dol'rhyd)	Col. P. H. Enthoven, D.L.	5	1 0	150	..	57·25	207	173
D Dolgelley (Borthwnog)	Col. C. W. H. Crichton	5	1 0	5	..	52·81	227	181
D Dolgelley (Bontddu)	E. P. Beale Esq.	5	0 10	50	58·8	62·83	229	187
d Llanbedr (Llwyn)	A. Towers, Esq.	5	2 0	50	..	42·45	..	..
5.—DOVEY. 82 sq. mi.								
D Aberdovey (Plas Penhelig)	J. M. Howell, Esq., D.L.	5	1 0	120	..	41·02	208	181
D Pennal (Llwyn-Celyn) *new g.*	Lt.-Col. M. V. le P. Trench	5	1 0	30	..	55·70	224	190
D Pennal (Talgarth Hall)	Owen D. Jones, Esq.	5	0 9	125	..	57·13	228	188
6.—SEVERN—Left Bank Tributaries.								
CARNARVON. (Area, 572 sq. mi.)								
1.—BARDSEY ISLAND.								
2.—CONWAY & C. 146 sq. mi.								
Lake Cowlyd (Capel Curig)	N. Wales Power Co. Ltd.	5	1 0	1400	..	98·68	..	..
Lake Cowlyd (Llethyr Gwyn) c	C. F. Farrington, Esq., C.E.	5	1 0	1700	..	(97·45)	208	..
Lake Llwgwy	N. Wales Power Co.	5	..	1820	..	96·49	..	..
L. Cowlyd (Ffrith Carreg Wen) A	C. F. Farrington, Esq., C.E.	5	1 0	1168	..	90·52	208	..
Lake Cowlyd B.	C. F. Farrington, Esq., C.E.	5	1 0	1700	..	(90·35)	..	..
Lake Cowlyd D	C. F. Farrington, Esq., C.E.	5	1 0	1900	..	(94·38)	..	..
Trefriw (Belle Vue Spa)	C. A. Hoefftcke, Esq.	5	1 0	8	..	50·23	205	166
d Tretriw Wells	C. P. Adamson, Esq.	5	1 0	25	..	50·75	(210)	(172)
D Lake Eigiau (Dam Site) (+A)	N. Wales Power Co., Ltd.	5	1 5	1244	*83·9*	81·08	253	206
d Llanbedr-y-Cennin (Melynllyn)	W. T. Ward, Esq., C.E.	5	1 0	2065	..	135·46	..	..
d Llanbedr-y-Cennin (Llyndulyn) *old g*	W. T. Ward, Esq., C.E.	8	1 6	1632	93·6	109·23	..	..
d Llanbedr-y-Cennin (Llyndulyn) *new g*	W. T. Ward, Esq., C.E.	8	1 6	1632	..	119·79	..	..
d Llanbedr-y-Cennin (Plasdulyn)	W. T. Ward, Esq., C.E.	8	1 0	509	..	53·94	..	..
D Tyn-y-Groes (Dolcrwm)	R. S. Fisher, Esq.	5	1 0	100	..	44·12	210	170
D Tyn-y-Groes (Roe Wen)	Albert Wilson, Esq.	5	1 0	140	..	43·82	225	171
D Conway (Mussel Tks.)	Ministry of Agric. & Fisheries	5	1 0	50	..	28·16	192	139
Deganwy (Y Berlfa)	Dr. Willoughby Gardner	5	1 0	35	31·2	28·57	..	..
D Llandudno (Cricket Ground)	Medical Officer of Health	5	1 0	13	28·1	26·09	193	129
3.—MENAI STRAITS. 221 sq. mi.								
d Edeyrn Tydweiliog (Cefnamlwch)	The Head Gardener	5	1 0	300	..	51·04	..	164
D Madryn Castle (Farm School)	The Principal	5	1 0	278	39·0	45·27	219	163
d Llanaelhaearn (Cl. School)	J. Hughes, Esq.	5	2 0	500	51·6	57·16	..	..
Nantlle (Dorothea Quarries)	W. J. Griffith, Esq.	8	60 0	350	..	64·67	..	..
Llandwrog (Glynllivon Park)	Rt. Hon. Lord Newborough	5	1 0	100	44·7	45·82	..	..
D Llandwrog (Glynllivon Nursery)	Rt. Hon. Lord Newborough	5	1 0	180	..	47·81	210	169
D Llandwrog (Glynllivon Garden)	Rt. Hon. Lord Newborough	5	1 0	100	..	50·63	230	192
Llandwrog (Glynllivon Fort)	Rt. Hon. Lord Newborough	5	1 0	180	..	51·68	220	179
D Waenfawr Council School	D. R. Jones, Esq.	5	1 0	520	..	58·53	227	187

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
CARNARVON—(*con*).		*ins.*	*ft. ins.*	*ft.*	*ins.*	*in.*		
3.—MENAI STRAITS—(*con.*).								
Carnarvon (Belan Fort)	Col. R. Vaughan Wynn ...	5	1 0	10	33·9	35·44	..	..
D Llanbeblig (Cefn Rhos)	Miss A.Preece	8	1 0	..	..	44·97	229	185
D Bethesda (St. Ann's Vicarage)	Rev. Canon W. Morgan....	5	2 0	450	*59·8*	66·50	243	203
D Bethesda (Penrhyn Quarries)	A. H. Richards, Esq.....	8	1 0	527	*65·8*	72·38	231	209
D Bangor (Town Hall)	Water Engineer & Surveyor.	8	1 6	50	..	38·30	202	185
D Bargor (Penrhyn Castle Gdns.)	Mr. J. Kneller.....	5	1 0	150	..	38·50	212	177
D Bangor (The Cottage)	J. H. Hamilton-Lee, Esq....	5	1 0	210	..	38·78	226	174
D ABER (University Coll. Farm)	Prof. R. G. White	5	0 6	60	..	40·09	229	182
D Llanfairfechan (Cae Cawr)	W. Timmins, Esq.....	5	1 0	400	..	36·42	213	172
D Llanfairfechan	The Surveyor, U.D.C.	5	1 0	120	37·9	39·39	216	167
D Penmaenmawr (Plas Uchaf)	R. W. Barnes, Esq.	5	1 2	470	..	39·90	194	176
W Penmaenmawr (Mountain)	J. Parry-Hughes, Esq.	5	1 6	1100	..	44·32	..	..
4.—ERCH & C. 155 sq. mi.								
D Abersoch (Craig-y-Mor)	Lady Winterbotham	8	1 0	55	..	40·66	213	167
D Pwllheli (West End)	B. V. Howell, Esq.....	8	1 0	9	..	43·62	224	176
W Pwllheli (Bodfean Hall)	Col. R. Vaughan Wynn.....	5	1 0	155	43·7	48·81	..	..
D Pwllheli (Bodfean Hall Gdns.)	Col. R. Vaughan Wynn.....	5	3 9	155	43.2	48·50	196	171
D Criccieth (Bron Eifion)	J. E. Greaves, Esq.....	5	1 0	100	..	45·57	199	183
5.—GLASLYN 50 sq. mi.								
D Portmadoc (Wern)	R. M. Greaves, Esq.....	5	1 0	20	..	48·14	228	186
d Beddgelert (Co. School)	The Headmaster.....	5	1 0	133	..	87·36	..	..
w Hafodtanygraig	Arnold White, Esq.....	5	1 6	280	..	99·01	..	..
D Snowdon (Cwm Dyli) (+A) No. 11	N. Wales Power Co., Ltd...	5	1 0	310	*117·9*	119·56	251	226
Snowdon (Cwm Dyli, Old Rd.) 14	N. Wales Power Co., Ltd...	5	0 10	325	..	119·64	..	..
Snowdon (Llewedd)..... No. 2.	N. Wales Power Co., Ltd...	5	1 3	1485	..	(120·15)	..	..
M Snowdon (Delta)..... No. 7.	N. Wales Power Co., Ltd...	5	1 0	1435	..	175·33	..	..
M Snowdon (Glaslyn)..... No. 3.	N. Wales Power Co., Ltd...	5	0 8	2050	..	(142·05?)	..	..
M Snowdon (Teryn)..... No. 1.	N. Wales Power Co., Ltd...	5	1 0	1080	..	161·75	..	..
d Snowdon (Llydaw Intake) No. 10.	N. Wales Power Co., Ltd...	5	1 0	1480	..	155·99	(221)	(197)
W Snowdon (L. Llydaw Copper M.) 9 .	N. Wales Power Co., Ltd...	5	1 5	1480	..	166·99	..	..
M Snowdon (Llyn Llydaw)... No. 5.	N. Wales Power Co., Ltd...	5	1 0	1470	..	124·76?	..	..
M Snowdon (Grib Goch)..... No. 8.	N. Wales Power Co., Ltd...	5	1 3	2340	..	178·62	..	..
ANGLESEY. (Area, 275 sq. mi.)								
D Bryn-siencyn (Trefarthen)	Miss E. Meyrick.....	5	1 0	30	..	36·70	206	165
D Llangadwaladr (Bodorgan)	Mr. A. Young	5	1 0	100	37·5	39·16	207	169
§ Llanfaelog	H. S. Lowe, Esq., J.P.....	5	0 9	50	32·0	33·76	..	..
Llanfaelog,	No. 2 H. S. Lowe, Esq., J.P. ...	5	0 9	50	..	36·82	..	..
D Plas Cadnant	Major T. Fanning Evans ..	5	1 0	156	..	41·02	208	172
D Pen-y-Parc	Com. Sir R. Williams Bulkeley, Bt. K.C.B.	5	1 0	372	..	40·48	214	165
D Llangefni (Fronheulog)	A. H. Withinshaw, Esq.	5	1 0	125	..	40·57	190	164
d Llansadwrn (Treffos)	C. Panton Vivian, Esq	..	..	318	..	42·92	..	171
Beaumaris (Fryars)	(R) Mrs. Burton	10	2 0	20	37·4	34·90	..	..
D Llangwllog (Trescawen)	Mrs. Pritchard-Rayner	5	1 0	239	42·2	44·04	224	178
D Penmon (Tros-yr-afon)	Major H. W. Jones	8	1 4	60	..	36·89	222	159
D Bodedern (Presaddfed)	Lt.-Col. W. A. Fox-Pitt	5	1 0	150	38·9	41·52	202	173
D HOLYHEAD (Salt Island)...(+A)	Assistant-in-Charge (M.O.)..	8	1 0	26	34·8	36·89	201	148
D Llanerchymedd (Llwydiarth Esgob)	E. Thomas, Esq.....	5	1 0	175	38·1	40·83	218	179
d Lligwy *new g*.	Lord Boston	5	1 0	170	..	41·03	..	153
D Amlwch (Dyffryn Adda)	Major T. Fanning Evans ...	5	1 3	178	36·3	38·34	204	167
ISLE OF MAN. (Area, 227 sq. mi.)								
St. Marks (Ballahowin)	Rev. R. Jones.....	5	1 0	374	..	47·64	201	166
D DOUGLAS (Borough Cemetery)	The Borough Surveyor	8	1 0	284	41·2	45·86	209	165
D Douglas (Clypse Res., Onchan)	T. C. Greenfield, Esq, C.E..	8	1 0	440	43·9	45·93	221	164
D West Baldwin Reservoir *new g*.	T. C. Greenfield, Esq., C.E..	5	1 0	470	..	65·37	220	187
Maughold Head	Com'rs. of N. Lighth's.....	5	0 6	230	..	32·22	..	..
d Ramsey (Town Hall)	The Town Surveyor.....	8	16 0	90	..	47·99	..	..
D Ramsey (North Promenade)	The Town Surveyor.....	5	1 0	30	..	46·09	227	151

§ Gauge over-exposed.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
CHANNEL ISLANDS. (Area, 76 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
JERSEY. 45sq. mi.								
D La Rocque (Sandhurst)†	H. C. Bisson, Esq.*	5	1 6	10	..	28·34	171	125
D St. Saviour (Petit Menage)	G. T. Robin, Esq.	5	0 10	30	..	32·84	186	144
D Grouville	The late L. de Carteret Malet, Esq.*	5	1 6	70	..	34·60	163	128
D St. Heliers (Harbour Office)	The Greffier	8	1 0	28	..	31·70	171	134
D St. Heliers (St. Louis Obs.) *new g.*	Rev. Ch. Rey, S.J.	8	1 5	180	31·9	33·24	177	127
D St. Brelade (La Sergenté)	W. Benest, Esq	5	1 4	194	..	33·14	176	133
D St. Aubins (Belle Vue)	C. J. Sumner, Esq.	5	1 2	220	..	34·56	173	136
D St. Lawrence (Beaumont Marsh)	F. A. Laxen, Esq.	5	1 0	60	..	34·45	152	132
D Millbrook (St. Helier W.W.)	A. J. Jenkins, Esq., C.E.	5	0 11	53	..	33·83	162	133
d St. Ouen's Manor	The late R. Malet de Carteret, Esq.	5	2 0	270	..	(33·27)	..	..
D Handois Reservoir	A. J. Jenkins, Esq.	5	1 0	272	..	37·61	170	142
D Trinity Rectory	Rev. S. J. Gruchy	5	1 0	375	..	36·29	187	149
GUERNSEY. 25 sq. mi..								
D Torteval (La Seigneurie)	Major F. Evan-Evans, D.S.O.	.	..	220	..	31·15	154	126
D St. Martin's (Les Blanches)	B. T. Rowswell, Esq.	5	1 0	309	..	34·87	166	132
D St. Martin's (Hât Nez)	A. A. Allain, Esq., C.E.	5	0 8	336	..	35·51	165	136
D Villiaze	A. A. Allain, Esq., C.E.	5	0 6	302	..	36·85	169	133
d St. Andrew (Vauxbelets College)	The Director	5	1 5	260	..	31·45	..	..
D St. Peter Port (Grange Road)	States Met. Comm.	5	1 0	175	33·2	38·42	170	133
D St. Peter Port (Market Street)	B. T. Rowswell, Esq.	5	52 8	99	..	36·63	168	135
D Castel (King's Mills)	A. A. Allain, Esq., C.E.	5	2 0	47	..	34·17	164	131
D Rohais (Colborne Villa)	T. J. Guilbert, Esq., C.E.	5	1 0	116	..	37·72	168	135
D Menheniot Vineries	Major H. Roper	5	1 1	97	..	39·04	171	135
D Les Quartiers	A. Higgs, Esq.	5	1 2	25	..	32·86	151	116
SARK. 2 sq. mi.								
D Pointe Robert	B. T. Rowswell, Esq.	5	1 0	214	..	31·11	158	129
HERM. 1 sq. mi.								
D Herm	Sir Percival Perry	5	1 3	8	..	30·74	182	118
ALDERNEY, 3 sq. mi.								
D St. Anne's	B. T. Rowswell, Esq.	5	1 0	235	..	30·67	141	121

† Previously at Pontac. * *Per* A. J. Jenkins, Esq.

SCOTLAND.

DIVISION XII—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
WIGTOWN. (Area, 488 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—LOCH RYAN. 46 sq. mi.								
D Castle Kennedy (Lochinch)	Earl of Stair	8	1 0	85	..	49·62	228	196
2.—WESTERN GALLOWAY, 44 sq. mi.								
d Logan House	K. McDouall, Esq.	8	1 0	80	37·3	42·17	..	176
Corsewall	Com'rs. of N. Lighthouses	8	4 1	48	..	39·36	..	..
3.—LUCE BAY. 186 sq. mi.								
D Whithorn (Physgill)	F. B. Hopkins, Esq.	5	1 0	170	36·4	41·29	216	171
D Whithorn (Glasserton)	Adm. Johnston Stewart, C.B.	5	1 0	225	39·5	45·05	210	182
D Port William (Monreith)	L. R. Younger, Esq.	5	1 0	145	38·5	45·93	202	175
Stoneykirk (Ardwell House)	Sir E. MacTaggart Stewart, Bt.	8	2 6	50	36·3	42·31	..	..
D New Luce (Public School)	J. Mackay, Esq.	5	1 0	200	46·6	49·79	227	188
4.—CREE & WIGTOWN BAY. 212 sq. mi.								
D Garlieston (Galloway Ho.)	P. H. Fletcher, Esq.	5	0 11	40	..	46·06	216	174
D Garlieston (Culderry)	Capt. A. Walmsley	5	1 0	25	..	47·69	216	172
D Kirkcowan (Craighlaw)	Major W.M. F. Hamilton	5	1 0	300	48·3	55·12	235	187
D Newton Stewart (Little Barraer)	Brig.-Gen. G. M. P. Hawthorn, C.B.E., D.S.O.	5	1 0	180	..	48·39	234	178
D Newton Stewart (Duncree)	Maj.-Gen. Sir Keith Stewart K.C.B.	8	5 5	125	..	47·60	235	180
KIRKCUDBRIGHT. (Area, 902 sq. mi.)								
1.—DOON. 16 sq. mi.								
w Rig of Millmore	Galloway Water Power Co.	5	1 0	1450	..	78·47	..	..
2.—CREE & WIGTOWN BAY. 222 sq. mi.								
D Borgue (Corseyard)	J. Douglas Brown, Esq.	5	1 0	50	39·8	42·13	180	161
w Kirroughtree Forest	J. McK. Graham, Esq.	5	1 3	350	..	52·84	..	..
3.—DEE. 377 sq. mi.								
D Threave	Major C. L. Gordon	5	1 0	275	..	55·01	213	179
D Mossdale (Hensol)	Lady Charles Kennedy	8	1 0	200	51·7	58·16	252	183
D Mossdale (Barney Water)	Galloway Water Power Co.	5	1 0	240	..	62·43	223	186
D Orchars	Galloway Water Power Co.	5	1 0	450	..	76·32	226	198
D Clatteringshaws (Sch. Ho.)	Galloway Water Power Co.	5	1 0	600	..	83·59	234	198
D Craigencallie	Galloway Water Power Co.,	5	1 0	740	..	88·08	236	208
Loch Dee	Galloway Water Power Co.	5	1 0	800	..	(88·12)	..	..
D Dalry (Glendarroch)	Miss M. Barbour	5	2 0	190	54·5	56·24	225	184
D Dalry (Garroch)	Arthur Young, Esq.	8	1 0	250	59·7	65·68	219	184
D Dalry (Forrest Lodge)	Sir John Wood, Bart.	5	1 0	500	63·2	83·56	235	214
d Carsphairn (Carlins Cairn)	Galloway Water Power Co.	5	1 0	1250	..	106·54	..	..
D Carsphairn (Shiel)	S. Wilson, Esq.	5	1 0	825	73·9	86·16	248	223
D Knowehead (Castle Douglas)	Galloway Water Power Co.	5	1 0	940	..	57·00	229	189
D Carsphairn (Knockgray)	Miss Clark Kennedy	8	1 0	641	56·0	65·90	257	197
D Knowehead (Cornharrow)	Galloway Water Power Co.	5	1 0	810	..	60·28	246	194
D Carsphairn (Knockingarroch)	Galloway Water Power Co.	5	1 0	740	..	67·67	187	173
D Knowehead (Lorg)	Galloway Water Power Co.	5	1 0	960	..	75·55	239	215
d Carsphairn Moor	Galloway Water Power Co.	5	1 0	790	..	77·99	(276)	(218)
4.—URR & C. 196 sq. mi.								
Auchencairn (Torr House)	Thomas Ovens, Esq.	5	1 0	50	47·1	52·98	..	..
D Dalbeattie (Drumstinchall)	Mrs. Hanbury	8	0 9	400	46·1	50·31	197	167
d Chipperkyle	Lt.-Col. J. A. Pollok Morris.	5	1 6	310	..	44·75	..	162
5.—NITH & C. 91 sq. mi.								
D Lochrutton (Dumfries W.W.)	J. Smellie, Esq.	5	1 0	273	44·0	52·42	244	177
D Carrachan	J. Hitchen, Esq.	5	1 0	73	..	46·78	217	168
DUMFRIES. (Area, 1,074 sq. mi.)								
1.—CLYDE—Right Bank Tributaries. 5 sq. mi.								
2.—URR. 6 sq. mi.								
3.—NITH & C. 421 sq. mi.								
D RUTHWELL (Comlongon Cas.)	W. Brown for the Earl of Mansfield	5	1 0	67	35·5	38·70	201	158
D Ruthwell (Hetland)	Miss K. M. Buchanan	5	0 8	400	..	43·15	207	172
D Mouswald (Schoolhouse)	Jas. F. Young, Esq.	8	1 0	115	..	43·81	219	174
D DUMFRIES (Crichton Roy. Inst)	C. C. Easterbrook, Esq., M.D.	5	1 0	140	36·8	42·14	203	156

DIVISION XII—SOUTHERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
DUMFRIES—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—NITH & C.—(*con.*).								
D Blackwood	T. W. Kennedy, Esq.	5	1 6	90	41·1	47·67	210	178
D Moniaive (Glencrosh)	Miss Macmillan	5	1 1	400	51·0	59·25	214	181
D Maxwelton House	Sir W. E. Laurie, Bt.	5	1 3	375	..	50·58	199	181
D Durrisdeer (Drumlanrig)	R. A. S. Ritchie, Esq.	5	0 9	191	43·6	55·59	266	185
4.—ANNAN. 367 sq. mi.								
D Dalton (Whitecroft)	Lady A. Maitland-Heriot	5	0 8	240	40·1	45·48	230	177
D Dalton (Kirkwood)	Captain J. Steel	5	1 0	250	..	48·21	265	192
M Lockerbie (Thornbank)	W. Murdoch, Esq.	5	1 0	259	39·0	47·42	..	..
D Gubhill School	The Head Mistress	5	1 0	560	49·2	57·10	219	192
D Evan Water School	Mrs. Grossart	5	1 0	560	51·2	59·41	225	186
5.—ESK. 275 sq. mi.								
D Eaglesfield (Springkell Gdns.)	Mr. Charles George	5	1 0	300	41·3	43·01	190	169
D Canonbie (Irvine House)	J. H. Milne Home, Esq.	5	0 9	200	46·5	49·59	212	171
d Langholm (Drove Road)	Mrs. Jackson	5	0 9	270	51·5	59·85	(230)	(188)
Langholm (Ewes)	Mrs. Lyall	5	1 0	445	53·4	58·43	..	..
D ESKDALEMUIR Observatory (+A)	The Superintendent	8	1 4	794	56·3	65·96	245	192
ROXBURGH. (Area, 666 sq. mi.)								
1.—NORTH TYNE. 6 sq. mi.								
2.—TWEED LOWER—Right Bank Tributaries. 57 sq. mi.								
3.—TWEED—Teviot & c. 431 sq. mi.								
D Hawick (WOLFELEE)	T. Lockie for Mrs. Browne	5	1 0	537	37·6	40·48	205	166
D Hawick (Branxholm Park)	C. W. Grieve, Esq.	5	0 6	457	33·4	40·28	193	168
d Todshawhaugh	R. J. Usher, Esq.	5	1 0	450	..	35·28	..	..
D Hawick (Dominican Priory)	Sister Mary Augustine	5	1 0	440	..	35·19	216	154
D Denholm (Spital Tower)	J. G. Leadbetter, Esq.	5	0 9	410	32·7	33·17	222	168
D Jedburgh (Jedneuk)	Capt. John S. Aikman, M.C.	5	1 0	270	26·3	28·71	207	134
D Jedburgh (Crailing)	Major J. A. Paton	5	1 0	190	..	28·26	194	139
D Ancrum (Monteviot)	Bertram Talbot, Esq.	5	1 0	210	29·8	29·60	191	139
Linton (Clifton Park)	T. R. B. Elliot, Esq.	5	1 0	250	..	31·57	..	..
D Melrose (Bowden, Kippilaw)	W. A. Henderson, Esq.	5	1 6	500	..	29·81	185	138
D St. Boswells (Monksford)	The late Lt.-Col. A. Mitchell	5	0 11	320	26·9	31·12	220	155
4.—TWEED—Ettrick & c. 10 sq. mi.								
D Melrose (Asylum) *gauge* A	T. C. Mitchell, Esq.	5	0 6	480	31·4	31·79	204	144
D Melrose (Asylum) *gauge* B	T. C. Mitchell, Esq.	5	1 0	480	30·8	30·43	204	144
5.—TWEED—Gala. 6 sq. mi.								
6.—TWEED—Leader & c. 25 sq. mi.								
7.—TWEED, LOWER—Left Bank Tributaries. 25 sq. mi.								
D KELSO (Broomlands)	J. C. Scott, Esq.	5	1 0	193	26·0	27·34	197	129
8.—ESK. 106 sq. mi.								
d Newcastleton Forest	Forestry Commission	5	1 0	700	48·5	53·30	..	..

DIVISION XIII—SOUTH-EASTERN COUNTIES.

SELKIRK. (Area, 268 sq. mi.)								
1.—TWEED—Teviot & c. 34 sq. mi.								
D Selkirk (Whitmuir Hall)	Miss M. E. Maxwell	5	1 0	800	32·5	35·87	237	163
2.—TWEED—Ettrick & c. 192 sq. mi.								
D Ettrick Manse	Rev. W. Addison	5	1 2	787	55·6	62·78	225	186
M Edinburgh W. W. (Meggat Hd.) 1.	Messrs. Leslie & Reid, C.E.	8	1 3	1496	54·5	72·98	..	..

DIVISION XIII—SOUTH-EASTERN COUNTIES.—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SELKIRK—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—TWEED, UPPER—Right Bank Tributaries. 17 sq. mi.								
4.—TWEED, UPPER—Left Bank Tributaries. 19 sq. mi.								
Galashiels (The Peel, Clovenfords)	W. R. Ovens, Esq.	5	1 0	450	35·5	34·10	..	..
5.—TWEED—Gala. 6 sq. mi.								
PEEBLES. (Area, 348 sq. mi.)								
1.—TWEED, UPPER—Right Bank Tributaries, 127 sq. mi.								
M Edin. WW (Ravenscraig) 3	Messrs. Leslie & Reid, C.E.	5	1 3	2258	72·6	100·97	..	..
M Edin. WW (Gameshope Loch) .. 4	Messrs. Leslie & Reid, C.E.	5	1 3	1860	70·6	89·10	..	..
M Edin. WW (Loch Craig Head) 2	Messrs. Leslie & Reid, C.E.	5	1 0	2627	64·5	97·60	..	..
M Edin. WW (Gameshope Farm) 5	Messrs. Leslie & Reid, C.E.	5	1 3	1538	69·4	93·27	..	..
M Edin. WW (Talla Linns Foot) .. 6	Messrs. Leslie & Reid, C.E.	8	1 3	966	61·8	71·18	..	..
M Edin. WW (Quarter Hill) 7	Messrs. Leslie & Reid, C.E.	8	1 3	1196	47·7	59·91	..	..
D Edin. WW (Victoria Lodge) ... 8	Messrs. Leslie & Reid, C.E.	5	1 3	900	50·0	54·81	237	176
2.—TWEED, UPPER—Left Bank Tributaries. 192 sq. mi.								
D Stobo Castle	Mr. J. Finnie	5	1 0	594	34·9	38·10	228	175
D Peebles (Golf Course)	The Town Clerk	5	1 0	629	..	36·48	173	153
D West Linton (Woodlea Cottage) ...	Messrs. Leslie & Reid, C.E.	5	1 0	801	..	38·16	230	163
D West Linton (Cairnton)	Dr. R. Graham Yooll	5	1 0	820	..	41·28	216	178
D West Linton (Baddingsgill Res.) ..	A. Simpson, Esq.	8	1 0	1100	..	49·77	264	199
3.—ESK. 23 sq. mi.								
D Eddlestone (Portmore Res.)	Messrs. Leslie & Reid, C.E.	11	1 0	1007	..	42·31	257	180
4.—CLYDE—Right Bank Tributaries. 6 sq. mi.								
BERWICK. (Area, 457 sq. mi.)								
1.—TWEED—Gala. 6 sq. mi.								
2.—TWEED—Leader. 92 sq. mi.								
D Earlston (Cowdenknowes)	T. A. Mole, Esq.	5	1 3	300	..	32·64	171	141
M Lauder (Burncastle)	J. G. S. Turnbull, Esq.	5	1 0	900	30·2	38·00	..	..
M Earnscleugh Burn (Blythe Rig) ...	J. G. S. Turnbull, Esq.	5	1 0	1200	36·1	46·19	..	..
3.—TWEED, LOWER—Left Bank Tributaries. 115 sq. mi.								
Coldstream (Lochton)	J. Aitchison, Esq.	5	1 0	151	25·9	29·44	..	..
D Swinton House ..... (+A) ..	Rev. A. E. Swinton	5	1 0	200	26·4	30·40	193	124
Whitsomehill	R. Hogg, Esq.	5	0 8	260	26·0	(26·01)	..	..
4.—TWEED—Whiteadder. 164 sq. mi.								
D Marchmont House	P. Ross, Esq.	5	1 0	498	32·2	34·46	213	131
D Duns (Nisbet House Gdns.)	Mr. W. Cowieson	5	1 0	290	26·8	33·80	200	136
D Duns (Oxendean)	A. C. Fraser, Esq.	8	0 7	600	..	34·79	180	141
D Duns Castle	Mrs. F. S. Hay	5	1 0	500	30·8	33·07	191	133
D Duns (Manderston)	Mr. F. J. Marshall	5	2 6	356	30·7	34·55	210	130
5.—EAST COAST STREAMS. 80 sq. mi.								
St. Abb's Head	Comm'rs of N. Lighthouses.	8	5 6	212	23·6	26·22	..	..

DIVISION XIII—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
EAST LOTHIAN (Area, 267 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—TWEED—Leader. 1 sq. mi.								
2.—TWEED—Whiteadder. 35 sq. mi.								
3.—EAST COAST STREAMS. 69 sq. mi.								
M Garvald (Donolly Reservoir)	A. Robertson, Esq., C.E.	5	1 0	550	32·8	35·30	..	..
M Garvald (Thorter Reservoir)	A. Robertson, Esq., C.E.	5	1 0	700	..	36·36	..	..
D Broxmouth	J. Easson, Esq.	4	1 0	50	..	26·57	152	109
D DUNBAR (Public Park)	The Town Council (Sir. W. J. Keith)	5	1 0	75	..	25·81	180	114
4.—TYNE & C. 114 sq. mi.								
Lammermuir H. (Stobshiel Res.) B	J. Ross, Esq., C.E.	5	1 0	950	33·0	35·66	..	..
Lammermuir H. (Stobshiel Res.) A	J. Ross, Esq., C.E.	5	1 0	998	28·1	32·97	..	..
Lammermuir H. (Lammerloch Res.)	J. Ross, Esq., C.E.	5	1 0	900	..	34·48	..	..
5.—FIRTH OF FORTH. 48 sq. mi.								
d East Fortune Sanatorium	The Clerk of Works	5	1 4	101	23·5	27·75	..	111
d Dirleton	James Curr, Esq.	5	1 0	149	..	24·72	..	112
D North Berwick Reservoir	A. Robertson, Esq., C.E.	5	1 0	150	25·4	25·80	171	120
D NORTH BERWICK (Gas Works)†	The Town Council	5	1 0	118	24·1	24·85	159	117
6.—INSULAR.								
MIDLOTHIAN. (Area, 369 sq. mi.)								
1.—TWEED—Gala. 68 sq. mi.								
M Stow (Cragdale)	J. Pringle, Esq.	5	0 6	642	*33·3*	35·60	..	..
2.—TYNE. 28 sq. mi.								
D Oxenfoord Castle Gardens	Mr. D. M. Welsh	5	1 6	409	*27·6*	32·03	202	148
3.—FIRTH OF FORTH. 3 sq. mi.								
4.—ESK. 116 sq. mi.								
M Moorfoot Hills (Bowbate) *old g.*	Messrs. Leslie & Reid, C.E.	11	0 6	1260	*46·6*	50·64	..	..
M Moorfoot Hills (Bowbate) *new g.*	Messrs. Leslie & Reid, C.E.	5	1 0	1260	..	50·59	..	..
D Moorfoot Hills (Gladhouse Res.)	Messrs. Leslie & Reid, C.E.	5	0 8	915	35·3	40·67	249	183
D Moorfoot Hills (Rosebery)	Messrs. Leslie & Reid, C.E.	5	0 9	750	..	35·63	221	154
D Moorfoot Hills (Edgelaw)	Messrs. Leslie & Reid, C.E.	5	0 10	654	..	31·83	219	152
D Gorebridge	W. S. B. Brown, Esq.	5	1 0	560	*29·5*	33·16	203	141
M Pentland Hills (Harehill)	Messrs. Leslie & Reid, C.E.	11	1 7	1297	..	38·78	..	..
D Pentland Hills (Martyrs Cross)	Messrs. Leslie & Reid, C.E.	5	1 0	750	..	36·87	226	159
D Pentland Hills (Loganlea)	Messrs. Leslie & Reid, C.E.	5	1 0	811	..	39·48	213	157
D Pentland Hills (Glencorse Fil.)	Messrs. Leslie & Reid, C.E.	5	1 0	638	..	36·40	202	146
D Pentland Hills (Glen Cottage)	Messrs. Leslie & Reid, C.E.	5	1 2	739	..	38·26	208	152
D Newbattle (Public School)	W. Fowler, Esq.	5	1 0	300	*26·1*	30·73	188	130
5.—ALMOND & C. 153 sq. mi.								
D Pentland Hills (Crosswood)	Messrs. Leslie & Reid, C.E.	5	1 0	950	..	40·58	251	189
D Pentland Hills (Harperrig)	Messrs. Leslie & Reid, C.E.	5	1 0	900	..	41·78	256	166
D Pentland Hills (Morton)	Messrs. Leslie & Reid, C.E.	5	1 0	749	..	37·83	244	163
d West Calder (Addiewell)	Scottish Oils, Ltd.	12	21 0	620	35·7	35·59	..	..
D BOGHALL (+A)	Edin. & E. of S. Coll. of Ag.	8	1 0	639	*31·4*	33·69	209	143
D BALERNO (Shothead)	A. B. Buchanan Smith, Esq.	5	1 0	750	..	38·21	222	159
D Pentland Hills (Harlaw Res.)	Messrs. Leslie & Reid, C.E.	5	1 0	800	..	32·22	226	143
M Pentland Hills (Bonally Res.)	Messrs. Leslie & Reid, C.E.	11	0 6	1112	..	35·09	..	..
D Pentland Hills (Clubbiedean Rs.)	Messrs. Leslie & Reid, C.E.	5	0 6	773	..	33·34	213	141
M Pentland Hills (Swanston)	Messrs. Leslie & Reid, C.E.	11	0 6	550	..	31·48	..	..
D Pentland Hills (Fairmilehead)	Messrs. Leslie & Reid, C.E.	5	1 0	590	..	31·33	197	129

† Gauge previously at the Hospital.

DIVISION XIII—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
MIDLOTHIAN—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—ALMOND & C.—(*con.*).								
D Liberton (Alnwick Hill)	Messrs. Leslie & Reid, C.E..	5	1 0	407	..	28·64	184	119
D Colinton (Firhill Tank)	Messrs. Leslie & Reid, C.E..	5	0 6	412	..	30·80	209	132
D LIBERTON (College Farm)	Edin. & E. of S. Coll. of Ag. .	5	1 0	190	*27·2*	28·80	195	132
D EDINBURGH (BLACKFORD HILL)	The Astronomer Royal for Scot.	8	1 0	441	26·3	27·03	199	118
D EDINBURGH (UNIV. KING'S B.)	Prof. Sir T. Hudson Beare..	5	1 0	225	..	27·70	195	125
D Edinburgh (Gogar Park)	R. Cross, Esq.	5	1 0	155	..	29·97	205	137
d Edinburgh (Napier Road)	A. Harrison, Esq.	5	1 0	300	*26·0*	29·09	(199)	(128)
d Edinburgh (Corstorphine)	J. Laughton, Esq.	5	0 8	180	..	26·91	(194)	(133)
D Edinburgh (The Academy)	M. McC. Fairgrieve, Esq....	5	1 0	70	*25·3*	25·00	195	131
d Edinburgh (St. Roque)	Mr. H. B. Waugh	5	0 10	270	*26·6*	(28·22)	(196)	(125)
D Edinburgh (City Observatory)	J. McDougal Field, Esq....	8	1 0	348	*24·1*	24·99	195	133
D Edinburgh (Royal Botanic Gd.)	Prof. Sir W. Wright-Smith	5	1 0	74	*26·0*	26·39	177	123
6.—CLYDE—Right Bank Tributaries. 1 sq. mi.								
WEST LOTHIAN (Area, 120 sq. mi.)								
1.—ALMOND & C. 60 sq. mi.								
M Uphall No. 7.	Messrs. Leslie & Reid, C.E..	8	1 4	790	..	34·71	..	..
M Uphall No. 8.	Messrs. Leslie & Reid, C.E..	8	1 4	577	..	34·33	..	..
M Uphall No. 6.	Messrs. Leslie & Reid, C.E..	8	1 4	680	..	34·60	..	..
M Uphall No. 3.	Messrs. Leslie & Reid, C.E..	8	1 2	711	..	34·15	..	..
d Uphall	Scottish Oils, Ltd.	8	0 10	380	*31·2*	32·98	(199)	(143)
D Uphall (Houstoun House)	J. W. Shairp, Esq.	5	1 0	420	..	32·83	208	147
Winchburgh (Hopetown Oil Wks.).	Scottish Oils, Ltd.	8	2 2	327	..	38·61	..	..
Dalmeny House	The Earl of Rosebery	5	1 0	50	..	27·14	..	..
2.—FORTH—Right Bank Tributaries.—59 sq. mi.								
D Bathgate (Filters) No. 1.	A. L. Reid, Esq.	5	0 9	640	*33·0*	38·32	196	149
M Bathgate (Petershill Res.). No. 2.	A. L. Reid, Esq.	5	0 9	710	*30·3*	34·86	..	..
M Bathgate (Ballencrieff R.). No. 3.	A. L. Reid, Esq.	5	0 9	792	*31·0*	(35·38)	..	..
M Torpichen (Lochcote)	Wm. Beattie, Esq.	5	0 9	550	*33·2*	36·23	..	..
D Uphall (Beecraigs)	Messrs. Leslie & Reid, C.E..	5	1 0	531	..	37·02	209	167
M Carribber Reservoir	Wm. Beattie, Esq.	5	0 9	350	..	35·48	..	..
D Linlithgow (Grange)	Miss J. G. Cadell	5	0 9	430	..	32·04	215	140
D Linlithgow (Preston House)	Mr. C. Blair	5	1 0	380	..	32·99	182	137
3.—CLYDE.—Right Bank Tributaries. 1 sq. mi.								

DIVISION XIV—SOUTH-WESTERN COUNTIES.

LANARK. (Area, 881 sq. mi.)

1.—TWEED, UPPER—Left Bank Tributaries. 20 sq. mi.

2.—ALMOND. 14 sq. mi.

3.—FORTH—Right Bank Tributaries. 9 sq. mi.

D Airdrie (Forrestburn Res.)	A. Simpson, Esq., C.E.	5	1 0	722	*36·6*	38·46	220	174
4.—CLYDE—Right Bank Tributaries. 378 sq. mi.								
D Crawford (Camps Res.)	Jas. McMillan, Esq.	11	0 10	969	..	51·44	231	180
D Crawford (Camps Res.) *new g* (+A)	Jas. McMillan, Esq.	5	0 10	969	..	50·62	231	182
D Crawford (Camps Res.) No. 3	Jas. McMillan, Esq.	11	0 10	968	..	51·80	231	180
M Coulter Reservoir No. 1.	L. Costley, Esq., C.E.	11	1 0	1250	..	60·53	..	..
Lamington (Cowgill Reservoir)	J. Chisholm, Esq., C.E.	5	1 0	1012	..	45·03	..	..
D Biggar (Shieldhill)	Miss Dunlop	5	1 0	850	*32·7*	38·43	249	183
D Lamington House	Rt. Hon. Lord Lamington..	5	1 0	730	*38·0*	44·19	233	183
Carluke (Coldstream Reservoir)	L. Costley, Esq., C.E.	11	1 0	800	*36·2*	36·35	..	..
Carluke	J. Barr, Esq.	5	0 5	640	..	34·81	..	..
D Carluke (Law Junction)	Dr. W. A. Galbraith	5	1 0	534	..	31·24	207	152
Wishaw (Kirk Road)	J. Y. Scott, Esq.	6	1 0	480	*32·1*	32·28	..	..
Wishaw (Coronation Street)	A. Hinshelwood, Esq.	5	1 3	510	..	31·99	..	..
D Glasgow (Tollcross Park)	W. Besant, Esq.	5	0 6	85	*27·5*	37·00	227	175

DIVISION XIV—SOUTH-WESTERN COUNTIES.—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
LANARK—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—CLYDE—(*con.*).								
D Glasgow Green	W. Besant, Esq.	5	0 6	35	*36·8*	37·93	229	190
D Glasgow (Alexandra Park)	W. Besant, Esq.	5	0 6	141	*36·4*	34·66	229	169
D Glasgow (Riddrie)	K. McKenzie Topping, Esq., B.Sc.	5	1 0	252	..	40·65	226	178
D Glasgow (Botanic Gardens)	W. Besant, Esq.	5	0 6	110	*35·5*	36·66	231	181
D Glasgow University	Prof. J. R. Currie, M.D., D.P.H.	8	1 0	85	*35·4*	35·06	225	168
D Glasgow (Kelvingrove Park)	W. Besant, Esq.	5	0 6	48	*36·2*	32·39	193	167
D Glasgow (Victoria Park)	W. Besant, Esq.	5	0 6	30	*36·8*	34·96	223	181
D Glasgow (Ruchill Park)	W. Besant, Esq.	5	0 6	222	*36·1*	35·51	223	165
D Glasgow (Springburn Park)	W. Besant, Esq.	5	0 6	351	*38·0*	39·98	248	191
Clarkston (Roughrigg Res.)	J. Chisholm, Esq., C.E.	5	1 0	664	..	37·14	..	..
D Airdrie (Broomknoll Street)	J. Chisholm, Esq., C.E.	5	1 0	402	*35·1*	35·38	199	167
D Gartcosh (Gartloch Hospital)	Mr. James McEwen	5	1 1	291	*38·0*	35·61	228	174
d Caldercruix (Hillend Res.)	Mr. Boyd Drummond	5	3 6	620	37·3	38·18	..	..
D Chryston School House	W. V. Forrest. Esq.	5	1 0	298	..	37·29	223	173
5.—CLYDE—Left Bank Tributaries. 448 sq. mi.								
Elvanfoot (Potrenick Burn)	L. Costley, Esq., C.E.	11	1 0	1018	*63·5*	72·15	..	..
Elvanfoot (Peden Reservoir)	L. Costley, Esq., C.E.	11	1 0	1030	*62·0*	71·75	..	..
D Douglas (Kilncroft)	The Earl of Home	8	1 3	696	*43·4*	49·05	233	199
D Strathaven (Glengavel Res.) *new site*	J. McMillan, Esq., C.E.	5	1 0	839	..	56·26	243	200
d Coalburn	Auchlochan Colliery	5	1 3	735	..	(43·65)	..	..
D Symington (Birkwood)	Col. D. E. Brand, D.S.O.	5	1 6	750	..	37·93	224	174
D Strathaven (Dungavel)	A. K. Foulis, for the Duke of Hamilton & Brandon	5	1 0	798	..	53·28	238	202
D Strathaven (Dunside Res.)	J. McMillan, Esq., C.E.	5	0 10	1010	..	55·24	256	203
D Strathaven (Dunside Res.) *new site*	J. McMillan, Esq., C.E.	5	1 0	1002	..	58·35	256	203
D Strathaven (Kype Res.)	George Allison, Esq.	5	1 0	941	..	56·37	253	192
w Lesmahagow (Auchtyfardle)	Mrs. Lander	5	1 0	578	*37·0*	39·07	..	..
D Strathaven (East Overton Ho.)	H. Lee Dykes, Esq.	5	1 0	700	*43·8*	47·63	239	190
D Stonehouse (Sanatorium)*	W. A. Chapman, Esq.	5	0 7	526	..	39·60	225	179
D Stonehouse (Glassford Filters)	J. McMillan, Esq., C.E.	5	0 9	775	..	45·74	249	195
D Hamilton W.W. (Townhill)	George Allison, Esq.	5	1 0	430	35·6	38·32	215	178
D Hamilton (Wellhall Road) †	S. B. Becket, Esq.	5	1 6	234	*33·0*	34·62	212	164
D Hamilton (Woodlea)	W. Fletcher, Esq.	5	1 4	192	..	35·63	211	171
D Thorntonhall	A. H. Bishop, Esq.	5	1 0	440	*38·4*	41·96	244	183
D Carmunnock (Carnbooth)	R. Robertson, Esq., C.E.	5	1 0	365	*39·3*	43·33	241	185
D Cambuslang (Greenlees Filters)	J. McMillan, Esq., C.E.	5	1 0	322	*35·6*	38·44	228	174
D Glasgow (Dumbreck)	W. Gillies, Esq., LL.B.	5	1 0	76	..	36·80	229	174
d Glasgow (Maxwell Drive)	Rev. F. C. Newbery	5	1 0	60	..	34·22	..	170
D Glasgow (Bellahouston Park)	W. Besant, Esq.	5	0 6	80	*36·5*	39·85	232	187
D Glasgow (Elder Park)	W. Besant, Esq.	5	0 6	25	*37·4*	39·84	226	185
6.—IRVINE. 2 sq. mi.								
7.—AYR. 1 sq. mi.								
8.—NITH. 2 sq. mi.								
9.—ANNAN. 7 sq. mi.								
AYR. (Area, 1,135 sq. mi.)								
1.—CLYDE—Left Bank Tributaries. 7 sq. mi.								
D Glengarnock (Chemical Works)	Messrs. Colvilles, Ltd.	8	15 0	105	54·4	51·35	215	173
2.—FIRTH OF CLYDE. 60 sq. mi.								
D Ardrossan (Burnfoot)	J. C. Duncan, Esq., C.E.	5	1 0	63	..	41·70	229	168
D Stevenston (Greenhead Filters)	W. G. Guild, Esq.	5	1 0	186	41·6	42·41	213	169
Ardrossan (Busbie Res.)	J. C. Duncan, Esq., C.E.	5	1 0	370	..	47·50	..	..
D Seamill	A. McDonald, Esq.	5	1 6	35	..	38·88	221	160
D West Kilbride School	Alex. M. Fleming, Esq.	5	1 0	200	..	41·08	221	171
West Kilbride (Crosbie Res.)	W. Gray, Esq. C.E.	5	1 0	400	..	44·59	..	..
D West Kilbride (Hunterston)	Lt.-Gen. Sir A. Hunter-Weston, K.C.B.	5	1 0	40	42·4	46·96	215	180
D Fairlie (Southannan)	H. W. Rowe, Esq.	5	1 0	10	..	55·64	231	187
Fairlie (Water Works)	W. Gray, Esq., C.E.	5	1 0	270	..	58·63	..	..
D Largs (Stevenson Institute)	G. Arkieson, Esq.	5	1 0	20	..	52·77	222	188
D Largs (Woodbank)	A. Simpson, Esq.	5	1 0	25	..	51·79	240	188
D Largs (Noddsdale)	H. P. Ramage, Esq.	5	1 0	250	..	60·70	246	202

† Gauge previously at Scott St.

DIVISION XIV—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
AYR—(*con.*).		*in.*	*ft in.*	*ft.*	*in.*	*in.*		
2.—FIRTH OF CLYDE—(*con.*).								
D Largs (Middleton Filters)	G. Arkieson, Esq.	5	1 0	230	..	55·91	233	204
D Skelmorlie (West Park)	J. Wilkinson, Esq.	5	1 6	150	53·5	52·56	238	192
M Shaws W.W. (Knockencorsan) *new site*	J. MacAlister, Esq., C.E.	5	1 0	1040	..	76·00	..	..
M Shaws W.W. (Largs Road)	J. MacAlister, Esq., C.E.	5	1 0	910	*57·0*	81·50	..	..
3.—IRVINE & C. 296 sq. mi.								
D Ayr (Heathfield)	Medical Officer of Health.	5	1 0	43	..	32·66	178	157
D Prestwick	Burgh Surveyor.	5	1 0	17	..	32·80	210	162
D Monkton (Orangefield)	Mr. J. McCartney.	5	1 0	30	..	33·64	216	165
D Prestwick (Ladykirk Filters)	F. Pritty, Esq., C.E.	6	1 2	179	..	41·03	259	183
D Troon	The Town Council (M. S. Brodie, C.E.)	5	1 0	15	..	35·14	211	164
D Symington	T. McMillan, Esq., M.A.	5	1 0	290	..	38·24	235	178
D Hurlford (Carnell)	G. D. Findlay Hamilton, Esq.	5	1 0	300	..	37·32	220	181
Troon (Collenan Reservoir)	M. S. Brodie, Esq., C.E.	5	1 0	203	..	38·04	..	..
D Treesbank	Mr. T. Blacklock	5	1 0	150	..	41·11	236	186
D Irvine (Gailes)	H. W. Aitken, Esq.	5	1 0	12	35·9	35·57	226	165
D Cessnock Castle	J. Harling Turner, Esq.	5	1 0	360	..	46·69	237	196
D Newmilns (Lanfine)	G. R. Shield, Esq.	5	1 6	500	..	50·35	246	206
D Kilmarnock (Craig House)	Col. W. Pollock Morris.	5	1 0	70	..	38·72	228	181
d Kilmarnock (The Mount)	J. L. Lawson, Esq.	5	0 9	100	..	43·69	..	189
d Templetonburn	F. C Howie, Esq.	5	1 0	140	..	43·08	(243)	(182)
D Darvel (Kirkland Park)	W. Dunbar, Esq., C.E.	5	1 0	350	..	52·39	257	208
Raithhill	W. Dunbar, Esq., C.E.	5	1 0	640	..	54·74	..	..
D Kilmarnock (Grange Sch.)	R. Jack, Esq.	5	1 0	130	..	41·70	259	193
D Kilmarnock (Kay Park) (+A)	W. Dunbar, Esq., C.E.	5	4 0	132	..	41·16	233	185
D Kilmarnock (Dean Castle)	J. Middleton, Esq.	5	1 0	190	40·7	44·19	236	198
D Irvine (Cuninghame Home)	J. Gillespie, Esq.	5	1 0	24	..	38·72	229	169
D Kilmarnock (North Craig Res.)	W. Dunbar, Esq., C.E.	5	1 0	319	41·2	47·07	245	204
D Montgreenan Gardens	A. Dow ,Esq.	5	0 9	180	..	47·40	235	193
Fenwick (Whiteleehill)	W. Dunbar, Esq., C.E.	5	1 0	915	..	55·59	..	..
D Fenwick (Hareshaw Lodge)	E. Richmond Paton, Esq.	5	1 0	600	48·5	54·22	216	205
Croilburn	W. Dunbar, Esq., C.E.	5	1 0	725	..	53·73	..	..
D Fenwick (Amlaird Filters)	W. Dunbar, Esq., C.E.	5	1 0	590	43·3	50·46	248	205
D Balgray Mill	W. Dunbar, Esq., C.E.	5	1 0	550	..	48·13	228	202
Craigendunton Reservoir	W. Dunbar, Esq., C.E.	5	1 0	805	46·4	53·72	..	..
Loch Goin Reservoir	W. Dunbar, Esq., C.E.	5	1 0	865	49·4	56·54	..	..
D Blair Gardens	W. Dunbar, Esq., C.E.	5	1 0	155	..	51·47	222	187
Moor Farm	W. Dunbar, Esq., C.E.	5	1 0	810	..	55·47	..	..
D Stewarton Filters	C. M. L. Bodie, Esq.	5	1 0	515	..	49·48	236	199
D Kirkland (Dunlop)	R. Clement, Esq.	5	1 0	400	..	52·64	222	201
D Dalry (Munnoch Reservoir)	W. G. Guild, Esq.	5	1 0	325	47·9	52·86	244	192
D Dalry (Caaf Reservoir)	W. G. Guild, Esq.	5	1 3	515	53·2	57·81	244	200
D Dalry (Birkheadsteel)	W. G. Guild, Esq.	5	1 0	520	..	62·02	244	213
D Dalry W.W. (Filters)	W. Gray, Esq., C.E.	5	1 0	320	46·5	57·03	245	198
D Dalry (Templand)	A. Shanks, Esq.	5	1 0	154	..	50·40	242	186
Dalry W.W. (Thirdpart)	W. Gray, Esq., C.E.	5	1 0	560	52·0	54·45	..	..
Dalry (Camphill Reservoir)	James Lee, Esq., C.E.	5	1 0	611	..	70·63	..	..
D Beith (Filter Station)	W. Gray, Esq., C.E.	5	1 0	412	54·5	55·53	242	201
D Kilbirnie (Hole House Filters)	W. Gray, Esq., C.E.	5	1 0	377	..	69·37	261	217
M Kilbirnie (Pundeavon Res.)	W. Gray, Esq., C.E.	11	1 0	898	..	85·57	..	..
4.—AYR. 222 sq. mi.								
Cumnock Waterworks	W. Dunbar, Esq., C.E.	5	1 0	500	..	43·51	..	..
D Ayr Cemetery	J. Young, Esq., C.E.	5	1 0	40	34·8	34·45	209	157
D Annbank House	Jas. Dickie, Esq.	5	1 0	240	..	37·54	249	187
D Auchincruive	W. Scotland Agric. Coll.	8	1 0	89	..	36·68	229	172
D Catrine	Messrs. J. Findlay & Co.	5	1 0	300	..	43·65	241	199
D Montgomerie	T. Allan Arthur, Esq.	5	1 0	340	..	40·19	233	180
D Muirkirk (Kaimshill)	Dugald Baird, Esq.	5	1 6	750	43·4	49·73	239	193
D Mauchline (Hillhead Tank)	W. Gray, Esq., C.E.	5	1 0	564	..	40·77	223	184
Sorn (Blackside Water Tank)	W. Gray, Esq., C.E.	5	1 0	840	..	46·21	..	..

DIVISION XIV—SOUTH-WESTERN COUNTIES—(*con.*).

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AYR—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—DOON 119 sq. mi.								
d Tunskeen	Galloway Water Power Co.	5	1 0	1010	..	92·57	..	189
Loch Recawr	J. Young, Esq., C.E.	5	1 0	933	..	77·75	..	..
w Loch Finlas	J. Young, Esq., C.E.	5	1 0	849	55·1	66·26	..	..
D Dalmellington (Mossdale Filters)	W. Gray, Esq., C.E.	5	1 0	764	..	46·80	254	197
D Dunaskin (Ardoon)	David L. McCardel, Esq.	5	1 0	686	..	54·12	247	205
D Patna (Kerse Filters)	W. Gray, Esq., C.E.	11	1 0	743	44·1	42·55	198	177
D Maybole (Otterden)	Robert Cross, Esq.	5	1 3	314	..	45·78	229	187
D Dalrymple (Knockjarder W.W.)	J. Young, Esq., C.E.	5	1 0	287	..	40·31	222	188
D Ayr (Doonholm)	Col. N. Kennedy, D.S.O.	5	1 0	90	38·8	42·71	236	193
D Alloway (Doonside)	J. Ferrier, Esq.	5	1 5	99	..	42·66	254	191
6.—CULZEAN BAY & C. 32 sq. mi.								
D Turnberry (Hotel)	Resident Manager	5	1 0	30	..	35·61	210	162
D Maybole (Culzean Castle Gdns)	Mr. W. J. Orr	8	1 3	138	36·4	43·78	213	180
7.—GIRVAN. 105 sq. mi.								
d Girvan (Glendoune Gardens)	Mr. J. Simons	5	1 0	100	41·8	(48·71)	(221)	(191)
Loch Bradan	M. S. Brodie, Esq., C.E.	11	0 10	990	57·6	66·60	..	..
8.—STINCHAR & C. 155 sq. mi.								
D Glenapp Castle Gardens	Mr. A. W. Taylor	5	0 7	100	..	55·26	199	176
D Ballantrae (Windyknowe)	Capt. J. M. Borland, C.B.,D.S.O.	5	1 0	62	..	42·42	235	181
D Colmonell (Knockdolian)	A. Ogg for Capt. McConnell	5	1 0	170	44·8	44·95	222	177
D Pinwherry (Alticane)	D. I. W. Gray, Esq.	5	1 0	200	51·4	55·28	227	189
D Girvan (Pinmore)	Major E. C. Maxwell	5	0 5	207	49·8	51·60	246	196
D Barr (Alton Albany)	Lt.-Cdr. G. Hughes-Onslow, D.S.C.	5	1 6	330	..	56·89	250	205
9.—LOCH RYAN. 12 sq. mi.								
10.—LUCE BAY. 15 sq. mi.								
d Ballantrae (Lagafater Lodge)	Cedric R. Boult, Esq.	5	0 11	792	64·8	68·03	..	193
11.—CREE. 40 sq. mi.								
12.—DEE. 9 sq. mi.								
13.—NITH. 62 sq. mi.								
Afton Res. (Afton Water)	W. Gray, Esq., C.E.	5	1 0	1525	..	104·10	..	..
Afton Res. (Alwhat Burn)	W. Gray, Esq., C.E.	5	1 0	1435	..	104·45	..	..
Afton Res. (Montraw Burn)	W. Gray, Esq., C.E.	5	1 0	1554	..	97·00	..	..
Afton Res. (Montraw)	W. Gray, Esq., C.E.	5	1 0	1372	..	98·70	..	..
Afton Res. (Green Burn)	W. Gray, Esq., C.E.	5	1 0	1415	..	105·20	..	..
D Afton Res. (Filters) (+A)	W. Gray, Esq., C.E.	5	1 0	1328	..	98·31	272	235
D Glen Afton (Ayr Sanatorium)	Dr. E. E. Prest	5	1 0	833	53·2	62·76	257	197
D New Cumnock (Power Stn.)	New Cumnock Collieries, Ltd.	5	1 0	764	..	53·43	231	184
14.—INSULAR. 1 sq. mi.								
Ailsa Craig	Com'rs. of N. Lighthouses	5	1 0	35	27·0	33·37	199	170
RENFREW. (Area, 241 sq. mi.)								
1.—CLYDE—Right Bank Tributaries. 3 sq. mi.								
2.—CLYDE—Left Bank Tributaries. 194 sq. mi.								
Gorbals Dist.W.W. (Nether Cairn)	G. Henshilwood, Esq., C.E.	12	0 5	700	*57·2*	52·00	..	..
Gorbals Dist.W.W. (Middleton)	G. Henshilwood, Esq., C.E.	12	0 5	550	*55·8*	49·55	..	..
Gorbals Dist.W.W. (Ryat Lynn)	G. Henshilwood, Esq., C.E.	8	0 5	310	*49·0*	47·71	..	..
Gorbals Dist.W.W.(Waulk Glen)	G. Henshilwood, Esq., C.E.	12	0 5	280	47·2	47·95	..	..
Paisley W. W. (Muirhead)	James Lee, Esq., C.E.	5	1 0	482	..	58·81	..	..
Paisley W. W. (Springside)	James Lee, Esq., C.E.	5	1 0	532	..	59·37	..	..
Paisley W.W.(Back Thornlymuir)	James Lee, Esq., C.E.	12	1 0	646	50·9	58·11	..	..
Paisley W.W. (Stanely)	James Lee, Esq., C.E.	5	1 0	190	..	47·76	..	..
D Howwood (Midton House)	A. D. McNab, Esq.	5	1 3	232	..	60·66	213	193
D Pollokshaws (Rouken Glen)	W. Besant, Esq.	5	0 6	156	..	43·30	228	177
D Glasgow (The Linn Park)	W. Besant, Esq.	5	1 0	180	..	39·53	208	191
D Pollokshaws (Pollok House)	Sir J. Stirling Maxwell, Bt.	5	1 0	50	..	37·88	232	173
D Glasgow (Queen's Park)	W. Besant, Esq.	8	0 9	150	36·1	38·53	252	179
D Glasgow (Maxwell Park)	W. Besant, Esq.	5	0 6	69	..	35·03	238	179
D Kilbarchan (Milliken Park)	M. Douglas Anderson, Esq.	5	1 0	80	..	48·26	207	185
D Kilbarchan (Glentyan)	R. H. Hunter, Esq.	5	1 1	300	..	60·78	246	197

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RENFREW—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—CLYDE—Left Bank Tributaries—(*con.*).								
D PAISLEY (Coats Observatory)	Obs. Com. (J. Woodrow)	8	1 0	106	40·7	42·80	223	174
D **Houston Manse**	Rev. George Muir	5	1 0	103	..	51·17	229	190
§ Shaws W.W. (Duchal Moor) *new g*	J. MacAlister, Esq. C.E.,	5	1 0	1150	..	87·20	..	..
§ Shaws W.W. (Creuch Hill) *new g*	J. MacAlister, Esq., C.E.	5	1 0	1350	..	85·70	..	..
M Shaws W.W. (Green Water)	J. MacAlister, Esq., C.E.	5	1 0	788	*68·1*	73·70	..	..
D RENFREW ABBOTSINCH (Aerodrome) (+A)	Meteorological Officer	8	1 0	19	37·0	39·36	223	173
D **Kilmacolm W.W.**	James Grier, Esq.	5	1 0	600	..	73·06	246	204
D Kilmacolm Village	James Grier, Esq.	5	1 0	300	..	66·73	244	196
Bishopton (Dargavel)	Capt. A. Hall-Maxwell	5	1 0	33	..	45·04	..	..
D **Shaws W.W. (Gryfe Reservoir)**	J. MacAlister, Esq., C.E.	5	1 0	640	*65·1*	73·96	249	206
D Shaws W.W. (Mansfield)	J. MacAlister, Esq., C.E.	5	1 0	573	*64·5*	72·90	249	208
M Shaws W.W. (Darndaff Moor)	J. MacAlister, Esq., C.E.	5	1 0	850	*65·7*	70·40	..	..
3.—FIRTH OF CLYDE. 34 sq. mi.								
W Shaws W.W. (Kelly Dam)	J. MacAlister, Esq., C.E.	5	1 0	640	63·6	69·40	..	..
Inverkip (Daff Burn Reservoir)	Alex. Duthie, Esq.	8	1 0	506	..	66·29	..	..
W Douglihill Filters (Pt. Glas. W.W.)	James Murray, Esq., C.E.	8	1 6	550	..	57·04	..	..
W Parkhill Filters (Pt. Glas. W.W.)	James Murray, Esq., C.E.	8	1 6	275	..	53·52	..	..
D§Shaws W.W. (Compens. Res.) *new g*	J. MacAlister, Esq., C.E.	5	1 0	600	..	76·69	260	216
D Shaws W.W. (Loch Thom)	J. MacAlister, Esq., C.E.	5	1 0	643	65·4	78·60	261	213
W Shaws W.W. (Shielhill)	J. MacAlister, Esq., C.E.	5	1 0	962	*65·7*	77·50	..	..
D Shaws W.W. (New Yett's Dam)	J. MacAlister, Esq., C.E.	5	1 0	800	*65·0*	70·92	248	203
W Shaws W.W. (Spango Burn)	J. MacAlister, Esq., C.E.	5	1 0	757	*65·1*	75·60	..	..
D Shaws W.W. (Hole Glen)	J. MacAlister, Esq., C.E.	5	1 0	603	*62·2*	70·12	241	202
D GREENOCK (Prospect Hill) (+A)	J. MacAlister, Esq., C.E.	5	1 0	199	61·6	60·90	244	189
D Gourock (Levan Farm)	W. Millar, Esq.	5	1 0	221	..	59·67	257	197
D **Gourock (Coves Reservoir)**	Alex. Duthie, Esq.	5	1 0	221	..	60·18	227	195
4.—IRVINE. 10 sq. mi.								

DIVISION XV—WEST MIDLAND COUNTIES.

DUMBARTON. (Area, 270 sq. mi.)

1.—FORTH—Right Bank Tributaries. 10 sq. mi.								
2.—FIRTH OF CLYDE & COWAL. 52 sq. mi.								
D CARDROSS (Kilmahew)	Claud A. Allan, Esq.	5	1 0	130	*44·7*	50·76	239	189
D HELENSBURGH (Valve House)	J. N. Stirling, Esq., C.E.	8	1 0	293	53·0	57·38	240	189
D **Rosneath Castle Gardens**	Mr. J. Dawson	5	1 0	80	*50·7*	56·26	244	197
D Garelochhead (Faslane)	P. J. Macfarlan	5	1 6	25	..	70·84	234	199
Garelochhead (Gartnod)	Miss M. J. M. Robertson	5	1 4	10	..	71·00	..	..
D **Garelochhead (Ardarroch Gdns.)**	F. A. Bush, Esq.	5	1 0	100	..	79·97	245	212
D Arrochar (Benreoch Tighness)	Mrs. D. Little	5	1 0	50	..	98·08	255	226
D Arrochar (Braeside)	J. Lindsay, Esq.	5	1 0	40	*74·6*	84·10	274	223
3.—CLYDE—Leven. 149 sq. mi.								
D Renton (Carman Filters)	W. Buchanan, Esq.	8	4 0	292	*47·6*	51·19	237	201
d **Loch Lomond Park**	W. Besant, Esq.	5	1 0	156	*49·5*	63·47	..	..
Helensburgh (Blairnairn) No. 1	J. N. Stirling, Esq., C.E.	8	1 0	575	..	74·61	..	..
Helensburgh (Blairnairn) No. 2	J. N. Stirling, Esq., C.E.	5	1 0	1250	..	72·27	..	..
Helensburgh (Blairnairn) No. 3	J. N. Stirling, Esq., C.E.	5	1 0	1580	..	72·48	..	..
M **Glen Finlas Reservoir.....No. 1**	George Beaton, Esq.	5	1 1	782	*69·1*	74·00	..	..
M **Glen Finlas Reservoir.....No. 2**	George Beaton, Esq.	5	1 6	1194	*67·0*	72·43	..	..
M **Glen Finlas Reservoir.....No. 3**	George Beaton, Esq.	5	1 5	1627	*75·2*	72·20	..	..
M **Glen Finlas Reservoir.....No. 4**	George Beaton, Esq.	5	2 0	2040	*73·6*	75·31	..	..
M **Glen Finlas Reservoir.....No. 5**	George Beaton, Esq.	5	0 10	1635	*64·6*	69·10	..	..
M **Glen Finlas Reservoir.....No. 6**	George Beaton, Esq.	5	1 0	1172	*62·8*	66·97	..	..
4.—CLYDE—Right Bank Tributaries. 59 sq. mi.								
D Drumchapel (Wastdale)	F. C. Thomson, Esq.	5	1 0	49	*38·5*	38·06	237	175
W Bearsden (Glengarnock)	A. Lithgow, Esq.	8	1 0	132	*40·4*	41·67	..	..
Bearsden (Torran Môr)	J. Lewis Ferguson, Esq.	5	1 0	224	..	37·32	..	..
D **Gartshore Gardens**	Mr. Hugh Black	5	1 0	261	..	43·74	242	190
D Milngavie (Dougalston)	Mr. J. Hamilton	5	1 0	150	*43·7*	45·18	224	183
D Duntocher (Cochno Filters)	E. T. Collins, Esq., C.E.	5	1 0	400	*43·7*	45·20	208	184
Kilpatrick Hills (Greenside Res.)	E. T. Collins, Esq., C.E.	5	1 0	876	*50·8*	53·82	..	..

§ Turf wall round gauge.

DIVISION XV—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
DUMBARTON—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—CLYDE—Right Bank Tributaries—(*con.*).								
Kilpatrick Hills (Loch Cochno)	E. T. Collins, Esq., C.E.	5	1 0	909	*52·4*	55·11	..	..
Kilpatrick Hills (Jaw Reservoir)	E. T. Collins, Esq., C.E.	5	1 0	912	*52·7*	58·90	..	..
STIRLING. (Area, 463 sq. mi.)								
1.—FORTH—Right Bank Tributaries. 263 sq. mi.								
D Polmont (Vellore)	R. M. W. Brown, Esq.	5	1 0	320	*36·3*	36·25	195	151
d Polmont (Carhowden)	T. B. G. Harvey, Esq.	5	1 0	110	..	31·10	..	..
D Falkirk (Inglewood, Laurieston)	Miss H. S. D. Ballantine	5	1 0	133	*36·6*	35·53	188	152
D Falkirk (Westbank)—*Garden*	A. Nimmo, Esq.	5	1 0	75	*37·6*	35·29	196	156
D Falkirk (Westbank)—*Lawn*	A. Nimmo, Esq.	5	1 0	105	*36·5*	32·41	195	151
D Falkirk (Arnotdale)	W. Gibson, Esq.	5	1 0	105	*37·4*	34·58	200	155
Falkirk (Kerse)	George Smith, Esq.	8	1 0	18	31·9	29·84	..	..
Falkirk (Kerse) *new g.*	George Smith, Esq.	5	1 0	18	..	30·45	..	..
d Grangemouth (Burgh Stables)	J. C. Wallace, Esq., C.E.	5	1 0	15	*31·8*	31·23	..	..
M Little Denny Reservoir	Stirling & Falkirk W.Bd.	8	1 0	326	*43·1*	44·09	..	..
Little Denny Reservoir *new g.*	Stirling & Falkirk W.Bd.	5	1 0	..	..	43·57	..	..
M Little Denny Filters	Stirling & Falkirk W.Bd.	8	1 0	243	*42·2*	44·31	..	..
Blaefaulds Filters	Stirling & Falkirk W.Bd.		..	..	..	43·57	..	..
M Kilsyth (Faughlin Res.)	Stirling & Falkirk W.Bd.	8	1 0	707	*55·2*	58·96	..	..
Denny (Buckieburn Reservoir)	Stirling & Falkirk W.Bd.	8	1 0	825	*45·9*	42·51	..	..
Denny (Buckieburn Filters)	Stirling & Falkirk W.Bd.	8	1 0	760	*43·3*	38·07	..	..
M Earlsburn Reservoir	Stirling & Falkirk W.Bd.	8	1 0	1202	*58·0*	68·23	..	..
D Stirling (North Third Res.)	J. C. Wallace, Esq., C.E.	8	0 10	574	*44·8*	54·35	227	171
D Stirling (Touch Res.) No. 3	A. H. Goudie, Esq.	8	1 0	759	*47·7*	55·36	225	181
D Stirling (Touch Res.) No. 2	A. H. Goudie, Esq.	8	1 0	707	*47·1*	53·24	225	180
D Stirling (Touch Res.) No. 1	A. H. Goudie, Esq.	8	1 0	455	*47·6*	56·37	225	181
d Polmaise Castle Gardens	Mr. J. McAndie	5	1 1	220	..	47·25	..	148
W Touch Gardens	Mr. T. Davidson	5	1 0	90	..	50·69	..	..
Endrick Lodge	W. M. Wallace, Esq.	5	1 0	136	..	42·64	..	..
D STIRLING (Sauchie House)	The Town Council (J. Fyfe)	5	1 0	151	*36·5*	38·79	189	138
Stirling (Westerlands)	The late J. W. Drummond, Esq.	5	1 0	110	*36·9*	(36·19)	..	..
D Stirling (Craigforth)	A. J. Couper, Esq.	5	1 0	32	*39·1*	42·32	255	165
D Gargunnock House	C. Stirling, Esq.	5	1 0	85	*43·4*	48·59	227	156
D Kippen (Arngomery)	Mr. A. Leitch	5	4 6	150	*47·5*	47·73	229	174
Meiklewood	J. McNaughton, Esq.	5	1 0	35	..	45·81	..	..
W Duchray Valley (Ben Lomond)	G. Henshilwood, Esq., C.E.	8	0 6	1500	*88·0*	104·70	..	..
W Duchray Valley (Glen Dhu)	G. Henshilwood, Esq., C.E.	8	1 0	500	*83·8*	93·05	..	..
W Duchray Valley (Comer)	G. Henshilwood, Esq., C.E.	8	1 0	600	*88·0*	99·10	..	..
W Duchray Valley (Achaidh Burn)	G. Henshilwood, Esq., C.E.	8	1 0	1200	*97·4*	109·70	..	..
W Duchray Val. (Hd. of Main Stream)	G. Henshilwood, Esq., C.E.	8	1 0	950	*92·8*	99·35	..	..
2.—FORTH—Teith. 5 sq. mi.								
d Stronachlachar (Invergyle)	G. Henshilwood, Esq., C.E.	8	1 0	376	*82·4*	90·60	..	215
3.—FORTH—Left Bank Tributaries. 15 sq. mi.								
D Bridge of Allan (The Lea)	Mr. W. Watt	5	0 8	100	*35·9*	37·40	224	160
D Bridge of Allan (Langlands)	W. H. Gillespie, Esq.	5	1 0	45	..	39·40	202	151
4.—CLYDE—Leven. 128 sq. mi.								
Strathblane (Blanefield)	G. Henshilwood, Esq. C.E.	8	1 0	250	*50·5*	55·80	..	..
W Loch Arklet (Corriehichon)	G. Henshilwood, Esq., C.E.	8	0 6	870	*89·3*	92·90	..	..
W Loch Arklet (Corriearklet)	G. Henshilwood, Esq., C.E.	8	0 6	950	*90·2*	96·60	..	..
5.—CLYDE—Right Bank Tributaries. 52 sq. mi.								
Strathblane (Mugdock Res.)	G. Henshilwood, Esq., C.E.	8	0 6	320	46·2	49·35	..	..
D Milngavie (Eastertoun)	Major R. M. Ker	5	1 0	450	*45·0*	47·85	223	177
Kilpatrick H. (Burncrooks Res.)	E. T. Collins, Esq.	5	1 0	835	*49·5*	52·93	..	..
d Kilsyth (Queenzieburn)	W. Scott, Esq.	5	1 0	175	..	45·20	(213)	(175)
D Kilsyth (Innsbridge)	J. Milne, Esq.	5	4 6	197	*47·3*	49·50	260	188
D Lennoxtown	W. R. Patterson, Esq.	5	1 0	200	..	55·77	214	177
BUTE. (Area, 218 sq. mi.)								
1.—ISLE OF BUTE. 50 sq. mi.								
D ROTHESAY (Ardencraig)	A. H. Finlay & the Town Clerk	5	1 0	200	49·0	58·12	246	214
D Port Bannatyne (Ettrickdale)	Mrs. Gray Buchanan	5	0 10	160	..	58·09	245	215

DIVISION XV—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
BUTE—(*cont.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—CUMBRAES. 4 sq. mi.								
D Millport (St. Andrew's Home)	Dr. J. H. Paul	5	0 9	12	..	47·33	220	176
D Millport (Marine Biog. Stat.)	R. Elmhirst, Esq.	5	1 0	16	..	44·77	222	175
Millport (Water Works)	J. Dymock, Esq.	10	3 6	167	..	44·67	..	..
3—ARRAN. 164 sq. mi.								
Holy Island (Pillar Rock)	Com'rs. of N. Lighthouses..	5	0 11	68	48·6	45·09	215	178
D Dougarie Lodge	David Reside, Esq.	5	1 2	10	46·0	53·24	230	187
ARGYLL. (Area, 3,181 sq. mi.)								
1.—TAY—Tummel. 36 sq. mi.								
2.—SOUND OF ARISAIG, SOUND OF MULL & C. 317 sq. mi.								
D Morvern (ARDTORNISH)	A. Cameron for O. H. Smith, Esq.	5	1 0	48	*93·3*	78·20	232	220
D Morvern (Drimnin)	Mrs. Gordon	5	1 0	225	*62·7*	62·70	250	216
D Loch Sunart (Glenborrodale)	A. M. Fletcher, Esq.	5	0 8	30	69·0	73·02	261	243
D Acharacle (Shielbridge)	A. M. Fletcher, Esq.	8	3 0	51	*68·2*	73·83	277	257
d Loch Shiel (Polloch House)	Forestry Commission	5	1 8	32	*83·5*	98·45	..	240
3.—LOCH LINNHE—Right Bank Tributaries. 139 sq. mi.								
D Morvern (Kingairloch)	Mrs. G. H. Strutt	5	1 0	40	*98·2*	111·68	249	225
Corran Lighthouse	Com'rs. of N. Lighthouses...	5	1 0	13	81·0	87·46	229	210
D Ardgour House	Mrs. Maclean of Ardgour ..	5	0 10	60	*90·0*	105·51	281	236
4.—LOCH LINNHE.—Left Bank Tributaries. 165 sq. mi.								
D Barcaldine	Forestry Commission	5	1 0	50	65·9	74·72	235	212
D Duror (Achara)	W. D. Stewart, Esq.	5	1 2	45	70·7	80·12	242	216
D Glencoe Gardens	Mr. J. B. Crichton	8	1 0	85	..	93·91	254	220
Glenleven (Blackwater House).4..	British Aluminium Co. Ltd..	8	1 0	1069	80·8	96·04	..	..
D Glenleven (Blackwater Dam,S.) 2(+A)	British Aluminium Co.Ltd.	8	1 0	1072	84·0	105·61	279	231
D Glenleven (Kinlochleven) .....1..	British Aluminium Co. Ltd..	8	1 0	140	86·4	107·30	259	231
5.—LOCH ETIVE. 197 sq. mi.								
D Glen Etive	W. D. Fordyce, Esq.	..	1 0	200	94·0	116·07	265	236
6.—LOCH ETIVE—Loch Awe. 319 sq. mi.								
7.—FIRTH OF LORNE. 112 sq. mi.								
D Kilmelfort (Arduaine)	Mrs. Campbell of Arduaine .	5	0 9	23	*57·6*	78·31 ?	236	230
D Kilmelfort (Ardmaddy C.) ..	Rt. Hon. The Earl of Breadalbane	5	1 0	70	..	67·52	238	211
W Oban (Gleann-a-Bhearraidh Res.) .	D. Galloway, Esq.	8	1 6	400	*57·5*	63·84	..	..
D OBAN	D. Galloway, Esq.	8	1 0	229	..	54·53	242	210
8.—SOUND OF JURA. 163 sq. mi.								
D Lochgilphead (Poltalloch)	Mr. D. S. Melville	5	1 6	135	52·7	62·44	232	230
9.—KINTYRE, WEST. 146 sq. mi.								
Mull of Kintyre	Com'r. of N. Lighthouses...	5	1 0	270	41·1	43·78	..	..
D Largie Castle	Mrs. Moreton Macdonald...	5	1 1	160	*48·4*	47·04	245	186
10.—KINTYRE, EAST. 177 sq. mi.								
Campbeltown (South Park)	J. A. Gardiner, Esq.	8	0 10	20	*50·6*	54·69	235	206
D Carradale (Torrisdale Castle)	Major W. Macalister Hall...	5	1 0	84	*62·6*	68·77	255	216
D Skipness Castle	R. F. Graham, Esq.	5	1 2	14	..	51·56	236	208
11.—LOCH FYNE. 264 sq. mi.								
D Ardlamont (Kilbride)	J. W. Turnbull, Esq.	5	1 0	110	*49·0*	57·20	204	180
Otter Ferry (Ballimore)	Lt.-Col. J. MacRae-Gilstrap.	5	0 10	70	*52·1*	58·35?	..	..
D Ardrishaig (Canal Office)	E. A. Bly, Esq., C.E.	5	1 0	48	*67·9*	76·06	232	223
D Loch Fyne (Castle Lachlan)	The Maclachlan of Maclachlan	5	1 0	25	..	78·72	273	231
D Crarae Lodge	Capt. G. I. Campbell	5	1 0	20	*68·2*	79·69	255	221
D Strachur Park	Lady G. Campbell	5	1 8	25	*66·7*	80·17	254	241
D Brenchoillie	A. R. Page, Esq.	5	1 0	240	..	82·47	230	215
D Inveraray Castle Gardens	A. R. Page, Esq.	5	1 0	40	77·2	89·47	245	227
D Ardkinglas	J. R. Taylor, Esq.	8	1 6	37	*70·8*	83·98	264	228

DIVISION XV—WEST MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934: Rainfall.	1934: Days with ·01 in. or more.	1934: Days with ·04 in. or more.
	ARGYLL—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	12.—FIRTH OF CLYDE & COWAL. 242 sq. mi.								
D	Toward (Knockdow Gardens)	Sir Norman Lamont, Bt.	5	1 6	101	*59·7*	71·02	249	213
D	Toward (Inverchaolain)	Sir Norman Lamont, Bt.	5	1 0	..	*67·9*	78·39	251	213
D	Ardnadam (Hafton Ho.)	R. Allan, Esq.	5	1 0	73	*76·5*	79·29	241	201
D	Dunoon (Benmore Forest Sch.)	Forestry Commission	5	1 0	46	..	99·91	257	226
D	Loch Eck (Benmore)	H. G. Younger, Esq.	5	1 3	40	*86·6*	102·96	258	222
D	Strachur (Glenbranter)	Forestry Commission	5	1 0	188	*88·2*	101·16	239	234
D	Lochgoilhead (Ardgoil)	W. Besant, Esq.	5	0 6	20	*86·3*	97·35	262	225
d	Lochgoilhead (Nuthill)	Mrs. Henderson	5	1 0	15	*74·8*	86·53	..	..
D	Glencroe (Guithas Cottage)	J. M. Reid, Esq.	5	1 2	120	*101·0*	104·76	244	220
	13.—CLYDE—Leven. 4 sq. mi.								
	14.—INSULAR. 900 sq. mi.								
	Sanda Lighthouse	Com'rs. of N. Lighthouses.	5	2 9	134	*36·8*	37·39	213	187
	Islay (Rhinns)	Com'rs. of N. Lighthouses.	7	3 6	74	..	35·99	218	185
	Islay (Lochindaul)	Com'rs. of N. Lighthouses.	5	0 7	45	44·0	43·76	..	..
	Islay (McArthur's Head)	Com'rs. of N. Lighthouses.	5	0 6	173	58·4	65·67	231	211
D	Islay (Eallabus) *old g.*	J. MacKillop, Esq.	5	1 0	68	48·9	51·67	255	216
d	Islay (Dunlossit)	Mrs. N. M. Dunlop	5	1 0	100	55·0	57·89	198	..
	Islay (Rhuvaal)	Com'rs. of N. Lighthouses.	5	1 0	69	42·0	45·72	243	215
D	Jura (Ardfin)	C. G. Campbell, Esq.	5	1 0	160	*53·8*	55·14	258	210
D	Jura (Ardlussa)	W. Hargreaves Brown, Esq.	5	0 10	70	..	55·95	243	209
D	Colonsay	Lord Strathcona		..	100	..	45·31	262	204
	Lismore (Mousedale)	Com'rs. of N. Lighthouses.	7	3 10	38	43·7	46·47	205	194
D	Mull (Bunessan)	Angus Cameron, Esq.	5	1 0	50	51·6	51·.6	217	201
D	Mull (Auchnacraig)	G. W. Duncan, Esq.	8	1 0	50	..	95·82	230	222
	Mull (Benmore)	The Meteorological Office.	5	2 0	2800	135·8	130·10	..	..
D	Mull (Ulva)	F. W. Clark, Esq.	5	1 0	30	64·8	64·35	277	236
D	Mull (Salen)	J. Cameron, Esq.	5	1 3	50	..	86·34	235	233
D	Mull (Gruline)	J. W. Melles, Esq.	8	1 0	100	79·0	86·60	284	246
	Mull, Sound of	Com'rs. of N. Lighthouses.		..	..	61·5	66·26	260	231
	Fladda Lighthouse	Com'rs. of N. Lighthouses.	5	1 6	25	*58·2*	57·41	..	181
D	Tiree	(+A) J. R. Morrison, M.A., B.Sc. (M.O.)	8	1 0	22	44·7	45·72	255	207

DIVISION XVI—EAST MIDLAND COUNTIES.

CLACKMANNAN. (Area 55 sq. mi.)

	1.—FORTH, LOWER—Left Bank Tributaries. 55 sq. mi.								
D	Alloa House Gardens	Earl of Mar & Kellie, K.T.	5	3 0	40	*34·3*	37·35	204	153
D	Tillicoultry (Westbourne)	Mrs. Willison	5	1 0	66	*37·0*	39·35	194	160
M	Glendevon (Broich Burn) No.2	H. F. Hodge, Esq., C.E.	8	1 0	1333	*76·5*	81·67	..	..
M§	Glendevon (Burnfoot Hill) No. 8	H. F. Hodge, Esq., C.E.	8	1 0	1721	*49·2*	61·40	..	..
M	Glendevon (Backhill) No. 9	H. F. Hodge, Esq., C.E.	8	1 0	1067	*58·7*	69·73	..	..
D	Glendevon (Backhill)	H. F. Hodge, Esq., C.E.	8	1 0	1067	*60·5*	71·42	242	201

KINROSS. (Area, 87 sq. mi.)

	1.—FORTH, LOWER—Left Bank Tributaries. 15 sq. mi.								
	2.—LEVEN & C. 67 sq. mi.								
d	Loch Leven Sluice	Mr. J. Thomson	8	0 9	360	35·8	39·26	..	..
	Loch Leven Sluice *new g.*	Mr. J. Thomson	5	1 0	360	..	40·80	..	..
D	Milnathort (Laurel Bank)	Capt. L. Kininmonth	5	1 0	398	*36·0*	40·46	187	160
D	Earnieside	W. Phillips, Esq.	8	1 0	900	..	53·11	204	169
D	Milnathort (Ledlanet)	Sir James C. Calder, C.B.E.	5	1 3	700	*44·4*	50·32	211	171
D	Milnathort (Ochil Hills San.)	The Medical Superintendent	5	1 0	800	..	53·98	227	182
	3.—EDEN. 2 sq. mi.								
	4.—TAY—Earn. 3 sq. mi.								

§ Gauge over-exposed.

DIVISION XVI—EAST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
FIFE. (Area, 505 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—FORTH, LOWER—Left Bank Tributaries. 68 sq. mi.								
D DUNFERMLINE	The Carnegie Dunfermline Trust	5	1 0	237	..	32·04	190	140
d Kincardine (Tulliallan)	T. S. Craig, Esq.	5	1 0	80	..	32·94	..	..
Carnock (Craigluscar Res.)	D. H. Shaw, Esq., M.C., C.E.	12	0 4	480	36·1	38·10	..	..
2.—LEVEN & C. 208 sq. mi.								
d Dunfermline (Fordell House)	Countess of Buckinghamshire	5	1 0	250	32·0	34·48	..	124
d Burntisland (Cullaloe Res.)	J. A. Waddell, Esq.	5	1 0	294	..	28·45	..	131
D KIRKCALDY (Munro Street)	The Town Council (F. Braid)	5	1 0	63	30·0	28·95	190	121
d Kirkcaldy (Townsend Crescent)	Wm. Hutton, Esq.	5	1 0	113	..	29·58	(180)	(122)
D Cowdenbeath (Sewage Wks.)	C. A. Alexander, Esq.	5	1 0	390	..	39·03	191	135
M Cleish Hills (Craiggaveral)	C. A. Alexander, Esq.	5	1 0	760	41·0	42·87	..	..
M Cleish Hills (Roscobie Res.)	C. A. Alexander, Esq.	5	1 0	660	39·6	41·90	..	..
D Kirkcaldy (Carberry)	R. Ritchie, Esq.	5	1 0	326	..	29·77	185	123
M Cleish Hills (Blairadam)	C. A. Alexander, Esq.	5	1 0	670	35·8	37·69	..	..
M Cleish Hills (Lochglow Res..)	C. A. Alexander, Esq.	5	1 0	900	39·3	40·71	..	..
D Leslie (Lothrie Reservoir)	R. Ritchie, Esq.	5	1 0	700	36·7	42·12	223	152
D Colinsburgh (Cairnie House)	Maj. R.A. Anstruther, D.S.O.	5	3 6	125	28·8	27·46	185	125
D Colinsburgh (Balcarres)	Mr. W. Adams	5	1 0	300	..	32·48	198	130
D Carnbee (Ovenstone W.W.)	C. Birrell, Esq.	5	1 0	168	..	28·63	185	134
Kirkmay (Crail)	J. Duncan, Esq.	5	1 0	110	..	30·07	..	..
3.—EDEN & C. 205 sq. mi.								
D Cupar (Clatto Reservoir)	Jas. M. Alexander, Esq.	5	1 0	505	30·1	38·18	220	132
D Cameron Waterworks	W. Watson, Esq., C.E.	5	1 0	478	29·9	36·33	184	139
D Cupar (Pitlair)	Mr. P. Webster	5	1 0	126	29·5	32·41	166	133
D Cupar (Rankeillour)	Mr. R. Tunstall	5	1 0	240	28·7	33·05	163	136
D CUPAR (The Asylum)	The Medical Superintendent	5	1 0	210	27·7	31·93	170	131
D Kingsbarns	Miss M. R. Nimmo	5	1 0	35	..	25·14	162	124
D Cupar (Over Rankeillour)	H. Giles Walker, Esq.	5	1 0	200	28·7	30·13	176	124
D St. Andrews (Waterworks)	W. Watson, Esq., C.E.	5	1 0	217	27·3	30·02	167	125
D ST. ANDREWS	W. Watson, Esq., C.E.	5	1 0	13	27·1	27·84	170	120
D LEUCHARS (Aerodrome) (+A)	The Meteorological Officer..	8	1 0	30	25·7	27·57	180	115
4.—FIRTH OF TAY. 25 sq. mi.								
D Newport (Tayfield)	W. Berry, Esq.	5	0 7	100	28·3	30·26	184	136
D Newport Manse	Rev. John A. Lees	5	1 0	150	27·1	27·87	173	117
D Newport (Seabank)	J. Grant Bruce, Esq.	5	4 6	15	27·5	27·15	171	118
D TAYPORT (Lighthouse)	Dundee Harbour Trust (J. H. Thomson, M.Sc.)	5	1 0	27	26·3	29·22	192	120
5.—TAY—Earn. 1 sq. mi.								
6.—INSULAR.								
D INCHKEITH (Lighthouse)	Lightkeeper (M.O.)	8	1 0	190	21·8	21·54	151	102
Isle of May	Com'rs. of N. Lighthouses	5	4 0	180	..	21·82	..	102
PERTH. (Area, 2535 sq. mi.)								
1.—FORTH—Right Bank Tributaries. 17 sq. mi.								
D Gartmore House Gardens	Mr. H. B. Matheson	5	1 0	160	*56·0*	59·68	242	182
d Loch Dhu	G. Henshilwood, Esq., C.E.	8	0 6	325	79·8	84·90	..	205
2.—FORTH, UPPER—Left Bank Tributaries. 84 sq. mi.								
Ledard	G. Henshilwood, Esq., C.E.	8	0 6	1500	*61·2*	77·87	..	..

DIVISION XVI—EAST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
PERTH—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—FORTH—Teith. 221 sq. mi.								
Ochtertyre (Stirling)	Lt.-Co. J. C. Dundas, D.S.O.	5	1 0	14	..	41·44	..	..
Loch Drunkie	G. Henshilwood, Esq., C.E.	8	1 0	420	*62·1*	70·20	..	..
D Invertrossachs	Sir James R. Wilson, Bt....	5	1 0	380	*58·7*	66·07	231	199
Ben Venue (Glasahoile)	G. Henshilwood, Esq., C.E..	8	1 0	1150	*80·4*	90·85	..	..
D Loch Vennachar	G. Henshilwood, Esq., C.E..	5	1 0	275	55·3	61·68	225	185
D Bridge of Turk	G. Henshilwood, Esq., C.E..	5	1 0	275	*63·5*	67·27	241	193
Loch Katrine (Tunnel Hill Top)	G. Henshilwood, Esq., C.E..	8	0 6	830	*81·4*	94·35	..	..
Ben Ledi	G. Henshilwood, Esq., C.E..	8	1 0	1400	*66·6*	77·15	..	..
Achnahard	G. Henshilwood, Esq., C.E..	8	1 0	474	*65·5*	79·50	..	..
Callander (Leny House)	Capt. M. Murray Buchanan.	5	1 0	340	*56·3*	58·60	..	..
W Strone Bridge	G. Henshilwood, Esq., C.E..	8	1 0	380	*72·4*	84·20	..	..
Glen Meann	G. Henshilwood, Esq., C.E..	8	1 0	800	*77·2*	89·85	..	..
Glen Finlas	G. Henshilwood, Esq., C.E..	8	1 0	1200	*79·0*	90·00	..	..
d Glengyle	G. Henshilwood, Esq., C.E..	8	0 6	380	89·9	100·35	..	236
Upper Glengyle	G. Henshilwood, Esq., C.E..	8	1 0	750	*95·6*	108·20	..	..
Allt a' Choin	G. Henshilwood, Esq., C.E..	8	1 0	1250	*89·6*	99·90	..	..
W Balquhidder (Blaircreach)	J. M. Fergusson, Esq.....	5	1 0	460	*94·7*	108·55	..	..
4.—FORTH, LOWER—Left Bank Tributaries. 107 sq. mi.								
d Dunblane	W. L. Gibson, Esq., C.E....	5	1 0	250	*37·3*	43·35	..	..
D Glendevon (Glenquey Res.) No. 2.	H. F. Hodge, Esq., C.E.....	8	1 0	945	*54·7*	61·46	201	192
D Glendevon (Frandy)	H. F. Hodge, Esq., C.E.....	8	1 0	911	*60·4*	73·22	242	189
Glendevon (Glensherup)	D. H. Shaw, Esq., M.C., C.E.	12	0 4	945	*59·8*	57·81	..	..
M Glendevon (Bald Hill)....No. 1.	H. F. Hodge, Esq., C.E.....	8	1 0	1202	*56·5*	66·29	..	..
M Glendevon (Wether Hill)..No. 10.	H. F. Hodge, Esq., C.E.....	8	1 0	1408	*48·8*	55·95	..	..
5.—LEVEN. 1 sq. mi.								
6.—EDEN. 4 sq. mi.								
7.—TAY—Earn. 376 sq. mi.								
D Gleneagles (Lochside)	B. Chinnery-Haldane, Esq..	8	1 0	447	*45·3*	49·70	215	170
D Gleneagles House ..... *new g.*	B. Chinnery-Haldane, Esq.	5	1 0	400	..	54·56	194	159
Upper Farg (Plains)	H. F. Hodge, Esq.....	8	1 0	900	*35·9*	46·98	..	..
D Upper Farg (Main Bank)	H. F. Hodge, Esq.....	5	1 0	642	*31·3*	39·36	216	146
D Dunning (Kippen House)	Lady Wilson.....	5	1 4	450	*43·1*	50·47	204	156
D Abernethy (Glenfarg House)	Norman I. Nasmyth, Esq...	5	0 10	120	..	37·67	190	153
d Glenfarg (Fordel)	Maj.-Gen. A. H. Marindin, C.B., D.S.O.	5	1 0	700	..	43·28	..	..
D Bridge of Earn (Ballendrick)	G. M. Taylor, Esq.	5	1 0	50	*32·6*	37·03	196	143
D Forgandenny (Horselea)	D. W. Guthrie, Esq.	5	0 9	..	..	35·30	196	144
D Lochearnhead (Ardloch)	S. Moir, Esq.....	5	1 0	370	*64·3*	67·12	235	184
D Lochearnhead (Edinchip)	Sir Malcolm MacGregor, Bt..	5	1 0	513	*70·3*	78·91	233	193
D Comrie (Dunira) ..... (R).	W. Gilchrist Macbeth, Esq..	10	1 6	240	*52·0*	56·97	185	159
D Crieff (Strathearn Hydro)	G. Reid for Dr. G. Meikle..	5	1 0	478	40·9	43·00	207	150
8.—TAY—Almond & c. 149 sq. mi.								
D 'Perth (Wellshill Cemetery)	The Town Council (J. Ritchie)	5	1 0	76	30·8	31·85	201	134
W Logiealmond Lodge	Earl of Mansfield.....	8	1 3	1020	*48·5*	53·41	..	..
D Glen Almond (Auchnafree)	Major J. A. C. Whitaker....	5	1 0	1015	*62·0*	78·99	211	174
9.—TAY—Strathtay below Dunkeld. 33 sq. mi.								
D Murthly (Douglasfield)	W. A. Rae, Esq.....	5	1 0	237	*34·9*	37·75	189	141
D Dunkeld (Snaigow)	W. H. Cox, Esq.....	5	1 0	370	*35·0*	39·44	210	149

DIVISION XVI—EAST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
PERTH—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
10.—TAY—Bran. 81 sq. mi.								
D Strath Bran (Glenquaich Lodge)	W. H. Cox, Esq.	5	1 0	900	*55·0*	61·65	203	173
11.—TAY—Strathtay above Dunkeld. 95 sq. mi.								
D Aberfeldy (Am Bothan)	A. Macpherson, Esq.	5	1 0	350	..	43·66	202	153
D Aberfeldy (Dall Avon)	Dr. N. D. Mackay	5	1 0	320	*38·7*	43·26	206	150
D Grandtully	A. R. Macnaughton, Esq.	5	1 0	233	*36·1*	37·99	190	140
12.—TAY—Loch Tay. 241 sq. mi.								
D Tyndrum Manse	Rev. Farquhar MacRae	5	1 0	750	..	103·09	252	221
D Killin (Auchmore Gardens)	Mr. A. McCormick	5	1 0	380	*56·8*	69·18	190	166
13.—TAY—Lyon. 142 sq. mi.								
D Glenlyon (Meggernie Castle)	Sir E. S. Wills, Bt.	5	1 0	700	*61·0*	71·50	187	163
w Fortingall (Glenlyon House)	Mr. J. W. Ford	5	1 0	425	*45·5*	49·24	..	..
14.—TAY—Tummel. 587 sq. mi.								
D Loch Rannoch (Dall)	Mr. D. Robertson, Jun.	5	1 0	722	43·2	51·60	233	176
D Loch Rannoch (Station)	Messrs. Balfour Beatty & Co.	5	1 0	1007	62·5	67·77	188	173
D Pitlochry (Dunfallandy)	D. Stewart-Fergusson, Esq.	5	1 6	410	32·9	41·49	182	171
D Loch Rannoch (Power House)	Messrs. Balfour Beatty & Co.	5	1 0	675	43·6	47·50	211	172
D Fincastle House	Dr. G. F. Barbour	5	1 0	980	33·9	38·10	187	132
D Ericht Dam	Messrs. Balfour Beatty & Co.	5	1 0	1106	52·0	60·00	258	197
D Struan (Auchleeks)	Miss Robertson	5	1 0	710	43·9	55·31	190	172
D Blair Atholl (Blair Castle Gdns.)	Mr. J. Dickson	5	1 0	500	33·1	37·55	246	156
15.—TAY—Isla. 282 sq. mi.								
D Blairgowrie (Kinloch Manse)	Rev. T. Milne	5	1 0	280	*29·6*	32·44	179	134
D Dunkeld (Cardney)	A. R. Macgregor, Esq.	5	1 0	350	*36·7*	39·56	186	141
D Kirkmichael (Ballintuim Ho.)	Miss M. A. Macdonald	5	1 4	700	*37·8*	43·42	219	147
d Kirkmichael (School)	W. Muckersie, Esq.	5	1 0	700	..	43·24	..	..
16.—TAY—Left Bank Tributaries. 51 sq. mi.								
Pitfour Castle	Miss D. Cairns	..	..	..	*29·0*	31·84	166	150
D Kinfauns (Balthayock)	R. Wylie Hill, Esq.	5	4 6	323	*32·0*	32·94	199	141
D Perth (Ard Choille)	Earl of Mansfield	5	0 11	90	*31·8*	35·20	191	146
17.—FIRTH OF TAY. 45 sq. mi.								
Errol (Annat Cottage)	W. Kimm, Esq.	5	4 0	200	*27·5*	31·17	..	..
18.—SPEY—Right Bank Tributaries. 1 sq. mi.								
19.—LOCH LINNHE.—Left Bank Tributaries. 2 sq. mi.								
20.—CLYDE—Leven. 36 sq. mi.								

DIVISION XVI—EAST MIDLAND COUNTIES—(*con.*)

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
ANGUS (Area, 875 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—TAY—Isla. 211 sq. mi.								
D KETTINS School	W. B. Ogilvie, Esq.,	5	1 0	218	32·0	35·70	184	136
D Glamis Castle	Mr. D. McInnes	5	0 7	250	30·9	39·93	169	138
D Forfar (Yeaman Street)	W. P. Welsh, Esq.	5	1 0	226	..	36·03	171	142
D Kirriemuir (Lintrathen) (+A)	G. Baxter, Esq., C.E.	8	1 0	700	34·7	37·44	199	147
M Kirriemuir (Balnakeilly)	G. Baxter, Esq., C.E.	5	1 0	700	34·1	43·50	..	..
M Kirriemuir (Dykends)	G. Baxter, Esq., C.E.	5	1 0	750	..	43·81	..	..
M Kirriemuir (Creich Hill, N.)	G. Baxter, Esq., C.E.	5	1 0	1491	40·5	50·10	..	..
M Kirriemuir (Backwater)	G. Baxter, Esq., C.E.	5	1 0	850	..	48·25	..	..
M Kirriemuir (Westerton)	G. Baxter, Esq., C.E.	5	1 0	900	..	49·88	..	..
M Kirriemuir (Macritch)	G. Baxter, Esq., C.E.	5	1 0	1300	..	47·28	..	..
M Kirriemuir (Newton)	G. Baxter, Esq., C.E.	5	1 0	735	..	45·03	..	..
M Kirriemuir (Longdrum)	G. Baxter, Esq., C.E.	5	1 0	1045	39·3	51·72	..	..
M Kirriemuir (Glendye)	G. Baxter, Esq., C.E.	6	1 0	1050	..	55·92	..	..
M Kirriemuir (Barney)	G. Baxter, Esq., C.E.	5	1 0	1130	40·2	49·38	..	..
M Kirriemuir (Glenhead)	G. Baxter, Esq., C.E.	5	1 0	1340	..	51·40	..	..
M Kirriemuir (Dalvanie)	G. Baxter, Esq., C.E.	5	1 0	1020	..	51·00	..	..
M Kirriemuir (Glen Damff)	G. Baxter, Esq., C.E.	5	1 0	1360	..	53·97	..	..
2.—FIRTH OF TAY. 80 sq. mi.								
D CARNOUSTIE (BUDDON NESS LT.)	Dundee Harbour Trust (J. H. Thomson, M.Sc.)	5	1 0	27	26·4	26·12	185	124
D DUNDEE HARBOUR	Dundee Harbour Trust (J. H. Thomson, M.Sc.)	5	0 11	14	27·4	27·62	171	113
D Dundee (Stobsmuir Res.)	G. Baxter, Esq., C.E.	5	1 0	278	..	29·61	163	116
d Dundee (Camperdown Works)	Messrs. Cox Bros., Ltd.	5	1 0	300	26·8	31·18	..	..
D Balruddery	H. S. Sharp, Esq.	5	1 0	266	29·8	33·63	204	141
D DUNDEE (MAYFIELD)	The Director of Studies	8	1 0	147	26·2	30·36	185	130
3.—SOUTH ESK & C. 371 sq. mi.								
D CARNOUSTIE	Burgh Surveyor	8	1 0	39	27·2	26·14	174	115
D Monikie Reservoir	G. Baxter, Esq., C.E.	5	1 0	494	34·7	35·02	196	128
D Monikie (Crombie Reservoir)	G. Baxter, Esq., C.E.	5	1 0	528	35·2	38·23	217	134
M Monikie (Fallaws)	G. Baxter, Esq., C.E.	8	3 0	585	33·2	37·48	..	..
D Arbroath (Hill Terrace)	J. C. Dewar, Esq.	5	1 0	50	..	29·32	176	127
D ARBROATH (W. Cemetery)	The Town Council (J. W. Robertson)	5	1 0	93	25·6	27·71	154	113
W Arbroath (Muirheads Res.)	T. A. Hogg, Esq., C.E.	5	1 0	251	28·1	32·33	..	..
Forfar (Pitscandly House)	J. T. Ewen, Esq.	5	1 8	300	..	34·83	..	..
D MONTROSE	D. Maxwell, Esq., C.E.	5	1 0	16	..	27·70?	162	120
D Montrose (West End Park)	D. Maxwell, Esq., C.E.	5	1 0	19	..	30·99	176	126
D Brechin (Argyll Street)	J. Hutton, Esq.	5	1 0	225	34·1	34·12	188	124
D Forfar W. W. (Den of Ogil)	Alex. C. Miller, Esq., C.E.	12x4	2 1	633	..	42·66	185	160
D Glenogil Waterworks	T. A. Hogg, Esq., C.E.	5	1 0	770	40·9	43·50	168	137
D Glen Prosen (Pearsie House)	G. M. Wedderburn, Esq.	5	1 0	600	39·1	41·08	208	144
M Glen Prosen (Cormuir)	G. Baxter, Esq., C.E.	5	1 0	870	..	52·60	..	..
D Glen Prosen (Balnaboth Gdns.)	J. F. Hardie, Esq.	5	1 0	575	..	44·57	171	146
4.—NORTH ESK & C. 213 sq. mi.								
Brechin (Trinity)	Miss E. A. Stevenson	8	1 0	295	32·3	34·20	..	..
D MONTROSE (SUNNYSIDE ASYLUM)	The Medical Superintendent	5	1 0	200	27·0	29·57	168	132
D Montrose (Kinnaber W.W.)	D. Maxwell, Esq., C.E.	5	1 6	40	26·9	32·48	187	129
Brechin (Stracathro Gardens)	Mr. A. Dunlop	5	1 0	200	30·5	33·32	..	..

DIVISION XVII—NORTH-EASTERN COUNTIES.

KINCARDINE. (Area, 382 sq. mi.)								
1.—NORTH ESK & C. 99 sq. mi.								
D Marykirk (Balmakewan)	W. Low, Esq., B.Sc.	5	1 1	120	30·3	33·23	175	126
D Marykirk (BALMAKEWAN), No. 2	W. Low, Esq., B.Sc.	5	1 0	80	30·2	33·39	159	131
D Laurencekirk (Johnston Lodge)	R. B. Pearson, Esq.	5	1 0	400	33·1	38·76	178	134
D Fettercairn (Fasque)	Sir J. E. Gladstone, Bt.	5	0 10	320	36·0	41·50	210	142
D Fordoun (Auchenblae)	D. N. Collie, Esq.	5	1 0	325	..	38·34	190	141
2.—BERVIE, COWIE & C. 139 sq. mi.								
Todhead Pt. Lighthouse	Com'rs. of N. Lighthouses	5	1 9	114	..	26·03	..	..
D Stonehaven (Mains of Cowie)	John Hart, Esq.	5	1 0	100	..	30·34	179	132
Girdleness	Com'rs. of N. Lighthouses	7	4 0	89	..	31·44	..	..

DIVISION XVII—NORTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
KINCARDINE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—DEE. 144 sq. mi.								
D Strachan (Bridge of Dye)	Sir J. E. Gladstone, Bt.	5	1 0	513	43·9	49·27	218	159
D Banchory (Invery)	Major Jas. Kerr	5	1 0	225	34·8	40·24	186	140
D Banchory (Woodlands Sch.)	D. B. McKelvie, Esq.	5	1 0	300	..	44·40	173	151
D Banchory (Invercannie)	T. F. Henderson, Esq., C.E.	5	0 9	208	..	37·31	213	140
ABERDEEN. (Area, 1,974 sq. mi.)								
1.—DEE. 672 sq. mi.								
Glen Muick	T. F. Henderson, Esq., C.E..	5	1 0	1370	45·1	60·93	..	..
D Glen Muick (Inchnabobart)	T. F. Henderson, Esq., C.E.	5	1 0	1270	..	54·48	212	178
Glen Tanner (Aitnach)	T. F. Henderson, Esq., C.E..	5	1 0	1260	41·9	53·76	..	..
D Braemar (Bank)	J. Campbell, Esq.	5	1 0	1111	35·4	39·96	212	163
D Braemar (Derry Lodge)	T. F. Henderson, Esq., C.E..	5	1 0	1400	38·1	41·62	233	187
D Aboyne (Glentanar House)	Lord Glentanar	5	1 0	553	..	44·39	208	147
D Balmoral Castle Gardens	R. F. Chalmers, Esq.	5	1 0	927	33·0	39·95	232	162
D Abergeldie Castle Gardens	Mr. J. Durran	5	1 0	800	32·4	41·05	209	165
D Ballater (Irrigation Farm)	T. F. Henderson, Esq., C.E..	5	1 0	637	33·2	38·28	186	137
Beinn Bhreac	T. F. Henderson, Esq., C.E..	5	1 0	2700	..	(49·38)	..	..
D Aboyne	T. F. Henderson, Esq., C.E..	5	1 0	412	31·0	34·40	176	135
D Dess House	W. R. Davidson, Esq.	5	1 8	480	31·2	36·99	197	140
D Glen Gairn (Gairn Shiel Lodge)	T. F. Henderson, Esq., C.E..	5	1 0	1100	34·4	43·71	198	162
D Glen Gairn (Corndavon)	T. F. Henderson, Esq., C.E..	5	1 0	1500	37·3	38·39	224	177
D Torphins (School House)	Dr. George Davidson	5	1 4	480	..	35·48	184	142
M Lumphanan	T. F. Henderson, Esq., C.E..	5	1 0	490	31·6	38·95	..	..
D Drumoak (Drum Castle)	Mrs. Irvine	5	1 0	320	30·9	36·52	192	144
D Logie Coldstone School	Duncan Paterson, Esq., M.A., B.Sc.	5	1 0	608	30·9	33·80	221	147
D Aberdeen (Mannofield Res.)	T. F. Henderson, Esq., C.E..	5	1 0	171	30·5	35·89	222	158
D Craigiebuckler	Macaulay Institute for Soil Research	5	1 0	220	..	38·07	197	161
2.—DON. 512 sq. mi.								
D Aberdeen Observatory ...(+A)	Assistant-in-Charge	8	1 0	79	29·5	33·34	200	141
D Strathdon (Tornashean)	Mr. J. Duncan	5	3 6	1020	..	36·56	219	159
d Strathdon (Estates Office)	D. D. Laurie, Esq.	5	1 2	990	35·0	35·15	..	..
D Craibstone (Sth. Meethill Field)	Prof. J. Hendrick	5	1 0	275	33·6	39·66	193	155
D Dyce (Craibstone) ...(+A)	Abr. & N. of S. Coll. of Ag..	8	1 0	300	31·5	37·20	197	147
D Dyce (Parkhill House)	Mrs. Crombie	8	0 11	170	31·4	38·60	195	153
3.—YTHAN & C. 285 sq. mi.								
D Ellon (Esslemont House)	Capt.R.Wolrige Gordon,M.C.	5	1 6	100	29·8	36·56	215	150
D Ellon (Auchmacoy)	Earl of Caithness	5	1 0	150	..	32·45	203	146
D Haddo House	The Marquis of Aberdeen ..	5	1 0	186	31·5	33·10	217	142
D Fyvie Castle	Col. Sir C. R. Forbes-Leith, Bt.	5	1 0	200	33·9	38·53	211	164
4.—UGIE & C. 257 sq. mi.								
New Deer School House	J. A. Thomson, Esq.	5	1 0	397	32·3	36·25	..	..
D Peterhead (Stockbridge)	J. Robertson, Esq.	5	1 0	150	28·5	27·08	209	134
D Peterhead (Mains of Buthlaw)	W. Johnston, Esq.	5	1 6	120	30·3	28·30	218	147
D Peterhead (Forehill Works)	J. Dickie, Esq., C.E.	5	0 8	133	30·3	30·57	202	156
D Brucklay Castle Gardens	A. Dingwall Fordyce, Esq...	5	1 1	300	..	37·47	197	152
Kinnaird Head	Com'rs. of N. Lighthouses..	5	1 0	62	23·5	28·75	184	154
5.—DEVERON & C. 248 sq. mi.								
Huntly (Union Bank Ho.)	F. G. Allordice, Esq.	5	1 0	500	..	36·33	(220)	(167)
D Huntly (Cruchie)	Miss C. Joss	5	1 0	400	31·7	33·97	219	149

DIVISION XVII—NORTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
	BANFF. (Area, 630 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—YTHAN. 1 sq. mi.								
	2.—DEVERON & C. 344 sq. mi.								
D	Drummuir Castle	G. Clinton Chessor, Esq.	5	1 10	620	36·4	36·16	216	167
d	Keith Station	A. Munro, Esq.	5	0 10	356	33·8	23·96	..	..
D	Turriff (Forglen Gardens)	Mr. G. Stuart	5	1 0	220	31·9	35·20	204	153
D	Gamrie (Clenterty P. School)	T. H. Smith, Esq.	5	1 0	420	40·1	39·73	217	163
D	BANFF	The Town Council (I. H. Gordon)	5	0 9	130	26·8	32·28	215	142
	Buckie (Rochonnie)	W. Hendry, Esq.	5	1 0	334	27·0	27·75	..	..
	Buckie (West Church Street)	W. Hendry, Esq.	5	1 8	75	26·2	27·44	..	..
D	Cullen House Gardens	Mr. Mitchell Harrower	5	1 2	150	30·6	32·17	192	158
	3.—SPEY—Right Bank Tributaries. 285 sq. mi.								
D	Ballindalloch	C. Mackenzie, Esq.	8	1 0	680	33·0	36·50	217	149
D	Aberlour Orphanage	J. G. White, Esq.	5	1 0	350	32·7	32·32	192	147
	MORAY. (Area, 477 sq. mi.)								
	1.—DEVERON & C. 7 sq. mi.								
	2.—SPEY—Right Bank Tributaries. 85 sq. mi.								
D	Fochabers (GORDON CASTLE)	C. Webster for the Duke of Richmond & Gordon, K.G.	5	1 0	104	29·8	28·91	199	145
	3.—SPEY—Left Bank Tributaries. 133 sq. mi.								
d	Grantown-on-Spey	W. Currie, Esq.	5	1 0	700	31·1	32·34	..	..
D	Knockando (Windmill Cottage)	Mr. L. Younie	5	1 0	606	33·3	40·04	226	163
D	Aberlour (Wester Elchies)	Mr. A. Ross	5	1 0	550	34·2	30·18	191	146
	4.—LOSSIE & C. 154 sq. mi.								
D	Kellas (Kellas House)	G. Christie, Esq.	5	0 9	446	..	31·36	209	152
D	Lhanbryde (Blackhills House)	T. N. Christie, Esq.	5	3 6	310	29·2	31·27	207	153
D	Elgin (Kirkhill)	P. J. Macdonald, Esq.	5	1 7	35	..	27·54	182	147
M	Elgin (Rotha)	Miss M. E. Young	5	1 0	80	25·8	25·77	..	..
d	Elgin (Whinnyknowe)	Sir Edward Wallace	5	1 0	200	..	23·91	(209)	(139)
D	Duffus (Hopeman Lodge)	Mrs. Gordon Duff.	8	0 6	65	..	26·86	211	153
D	Lossiemouth (Moray Golf Club)	The Secretary	5	1 0	53	..	25·34	189	136
	Covesea (Skerries)	Com'rs. of N. Lighthouses	5	8 0	32	..	20·22	183	..
	5.—FINDHORN & C. 148 sq. mi.								
D	Forres (Drumduan)	The MacKinnon of MacKinnon	5	3 0	120	..	24·68	185	131
D	Forres (Drumduan Gdns.)	G. Dyker, Esq.	8	5 0	50	..	24·29	198	130
D	FORRES (Hydro)	The Town Clerk	5	1 0	155	..	23·51	184	128
	NAIRN. (Area, 163 sq. mi.)								
	1.—FINDHORN & C. 102 sq. mi.								
D	Drynachan Lodge	John Myles, Esq.	5	0 4	755	..	39·76	240	179
D	Ardclach (Glenferness)	Mr. A. McKenzie	8	1 6	700	34·8	36·65	168	159
D	Lethen	Col. Hon. I.M. Campbell, D.S.O.	5	1 6	300	..	28·14	200	133
	2.—NAIRN & C. 61 sq. mi.								
D	Cawdor Castle	Mr. James Taylor	5	1 0	225	29·2	31·40	239	166
D	Nairn (Balblair)	Major H. C. H. Allanby	5	1 0	94	24·5	26·63	208	135
	Nairn (Urchany Res.)	The Town Council	5	1 0	291	..	29·87	..	..
D	Nairn (Achareidh)	Major K. S. Clarke	8	1 0	59	24·3	26·41	231	138
D	NAIRN (Golf Course)	The Joint Town Clerk	8	1 0	20	24·9	24·29	208	126

DIVISION XVIII—NORTH-WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1934. Rain-fall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
INVERNESS. (Area, 4,146 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—TAY—Tummel. 28 sq. mi.								
D Loch Ericht (Ben Alder Lodge)	Mr. F. Mackintosh	5	1 0	1175	52·5	56·25	238	195
2.—SPEY—Right Bank Tributaries. 437 sq. mi.								
D DALWHINNIE	J. Phillips, (M.O.)	8	1 0	1176	46·7	57·43	252	213
3.—SPEY—Left Bank Tributaries. 257 sq. mi.								
D Cluny Castle	Mr. A. Macdonald	5	1 0	816	39·9	44·21	235	189
D Glenshero	British Aluminium Co., Ltd.	8	1 0	880	..	52·47	273	216
M Loch Spey	British Aluminium Co., Ltd.	5	1 0	1164	67·5	70·28	..	..
D Laggan (Gergask)	British Aluminium Co., Ltd.	8	1 0	870	*38·4*	39·12	220	178
D Kingussie (The Birches)	British Aluminium Co., Ltd.	8	1 0	810	31·5	36·10	239	165
d Alvie Manse	Rev. Dugald Maclean	5	1 0	750	30·3	33·56	..	..
D Carr Bridge (Crannich)	Mrs. J. A. Doak	5	1 0	900	29·6	34·10	222	157
4.—FINDHORN. 164 sq. mi.								
D Tomatin (Dalmigavie Lodge)	Mr. A. Kennedy	5	1 2	1150	..	43·75	234	193
5.—NAIRN & C. 131 sq. mi.								
6.—NESS—Right Bank Tributaries. 252 sq. mi.								
d Loch Ness (Killin, Whitebridge)	British Aluminium Co., Ltd.	8	1 0	1200	*47·9*	62·18	233	210
D Loch Ness (Garthbeg)	British Aluminium Co., Ltd.	8	1 0	630	*41·5*	50·08	260	190
D Loch Ness (Foyers)	British Aluminium Co., Ltd.	8	1 0	52	38·2	41·09	230	170
D Loch Ness (Aberchalder)	British Aluminium Co., Ltd.	8	1 0	700	*35·8*	46·32	250	173
D INVERNESS (Culduthel Res.)	The Town Council (A. Knowles)	5	1 0	242	*26·7*	29·71	202	141
7.—NESS—Garry & c. 185 sq. mi.								
D Loch Quoich (Glenquoich)	D. Macaulay, Esq	5	1 2	569	110·7	120·68	255	242
D Invergarry (The Schoolhouse)	W. M. Aitken, Esq.	5	1 0	180	62·6	62·09	269	202
8.—NESS—Moriston. 120 sq. mi.								
D Glenmoriston (Ceannacroc)	J. Grant, Esq.	5	1 0	410	66·7	71·09	252	210
D Glenmoriston (Invermoriston Hotel)	P. J. Kydd, Esq.*	5	1 0	70	47·5	51·77	201	167
9.—NESS—Enrick. 131 sq. mi.								
d Glen Urquhart (Corrimony)	Col. John Haig, D.S.O.	5	1 0	520	..	43·22	..	216
D Inverness (Ruigh Ard Asylum)	The Medical Supt.	5	0 11	330	*29·9*	35·67	238	170
10.—BEAULY. 341 sq. mi.								
d Beauly (Culmill)	W. L. McWilliam, Esq.	5	1 0	190	..	35·13	..	144
11.—CROMARTY FIRTH. 13 sq. mi.								
12.—SOUND OF SLEAT. 259 sq. mi.								
D Loch Nevis (Inverie Gardens)	Mr. Malcolm McLeod	5	1 0	15	*85·6*	90·65	268	241
13.—SOUND OF ARISAIG. 126 sq. mi.								
D Moidart (Kinlochmoidart)	J. C. Stewart, Esq.	5	1 0	13	*69·4*	82·31	277	243
d Arisaig (Faire-na-Sguir)	Miss C. C. Astley	5	1 0	30	*55·7*	(57·48)	(261)	(221)
D Arisaig House	Mr. W. Grant	5	1 0	40	*62·9*	69·66	272	238
14.—LOCH LINNHE—Right Bank Tributaries. 48 sq. mi.								
d Loch Eil (Achdalieu)	Col. D. W. Cameron of Lochiel	5	1 0	100	61·8	71·17	..	218
15.—LOCHY—Right Bank Tributaries. 143 sq. mi.								
D Loch Arkaig (Achnacarry)	Col. D. W. Cameron of Lochiel	5	1 0	128	82·0	82·29	268	222
d Loch Arkaig (Glendessary)	Col. D. W. Cameron of Lochiel	5	1 0	300	106·6	126·50	..	240

* Per Capt. W. N. McClean.

DIVISION XVIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	Days with ·01 in. or more.	Days with ·04 in. or more.
INVERNESS—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
16.—LOCHY—Left Bank Tributaries. 362 sq. mi.								
D Clunes (L. Lochy W.)	Col. D. W. Cameron of Lochiel	5	1 6	110	..	80·77	281	243
Loch Treig (Creaguaineach)	British Aluminium Co.,Ltd..	5	1 0	800	74·0	79·50	..	..
M Ben Alder (Loch a'Bhealich)	Mr. F. Mackintosh	5	1 0	2360	100·9	111·15	..	..
Loch Ossian (Strathossian Ho.)	British Aluminium Co.,Ltd..	8	1 0	1180	70·2	88·63	..	..
Fort William (Allt'a Mhuilinn)	British Aluminium Co.,Ltd..	8	1 0	1000	85·1	80·87	..	..
D Fort William (The Factory)	British Aluminium Co.,Ltd..	8	1 0	75	69·6	80·06	269	222
Roybridge (Lairig Road)	British Aluminium Co.,Ltd..	8	1 0	1650	91·2	97·79	..	..
M Ben Alder (Lochan Sgoir)	Mr. F. Mackintosh	5	1 0	2300	100·6	(97·65)	..	..
Spean Bridge (The Cour)	British Aluminium Co.,Ltd..	5	1 0	1050	92·5	110·06	..	..
Sgurr Finisgaig	British Aluminium Co., Ltd.	5	1 0	2000	..	128·07	..	..
D Loch Treig (Fersit)	British Aluminium Co.,Ltd..	8	1 0	850	62·9	71·35	245	203
Tulloch (Allt Laire)	British Aluminium Co.,Ltd..	5	1 0	1050	..	76·86	..	..
Roybridge (Allt Leachdach)	British Aluminium Co.,Ltd..	8	1 0	650	..	70·18	..	..
M Loch Pattack	Sir J. F. Ramsden, Bt.	5	0 9	1420	59·6	65·61	..	..
Glen Spean (Craigbeg)	British Aluminium Co.,Ltd..	8	1 0	860	54·9	58·94	..	..
W Loch Lochy (Invergloy)	Mr. J. Clark for Miss J. Allan	5	1 0	200	58·9	68·36	..	..
D Loch Laggan (Ardverikie)	Sir J. F. Ramsden, Bt.	5	0 6	838	..	44·80	261	176
17.—LOCH LINNHE—Left Bank Tributaries. 120 sq. mi.								
D North Ballachulish (Alltshellach)	B. Chinnery-Haldane, Esq..	5	1 0	80	74·3	87·15	260	232
D Onich	Forestry Commission	5	1 3	48	72·8	74·36	257	226
d Glenleven (Blackwater Dam, N) 7	British Aluminium Co.,Ltd..	8	1 0	1072	85·5	104·94	(281)	(239)
Kinlochleven (Mamore Lodge)	Mr. Ian Currie	5	1 8	700	95·1	106·09	..	..
M Glenleven (Invercam) No. 6	British Aluminium Co.,Ltd..	8	1 6	1070	74·8	83·62	..	..
Glenleven (Ciarin) No. 3	British Aluminium Co.,Ltd..	8	1 6	1200	80·8	88·55	..	..
Glenleven (Loch Eilde Mhor) 8	British Aluminium Co.,Ltd..	8	1 6	1130	94·9	105·42	..	..
Glenleven (Loch Eilde Beg) No. 9	British Aluminium Co.,Ltd..	8	1 6	1125	94·6	105·66	..	..
Glenleven (Corrour) No. 5	British Aluminium Co.,Ltd..	8	1 6	1260	70·1	82·15	..	..
D Fort William	J. W. Ainslie, Esq.	8	1 0	34	..	81·26	268	218
D Fort William (Glasdrum)	British Aluminium Co.,Ltd..	5	1 0	216	..	79·53	263	227
18.—INSULAR, INNER HEBRIDES. 786 sq. mi.								
D Isle of Eigg	Rt. Hon. Walter Runciman, P.C.	8	2 8	150	*53·5*	69·70	261	239
Hyskier	Com'rs of N. Lighthouses ..	5	0 5	31	*40·0*	40·17	208	202
D Skye (Kyleakin, Dunringell)	Maj. A. D. Mackinnon, C.M.G.	5	2 1	80	*62·4*	73·38	272	223
Oronsay Lighthouse	Com'rs. of N. Lighthouses..	5	0 6	10	*52·7*	61·38	277	216
D Skye (Scalpay Island)	Mr. D. Gunn	5	1 0	4	*75·1*	85·67	269	223
D Skye (Portree)	D. Dewar, Esq.	5	1 0	65	*61·7*	86·24	279	256
D Skye (Dunvegan)	Mrs. Mackenzie	5	3 0	47	*65·8*	71·17	270	241
D Skye (Duntulm, Kilmuir)	Seton Gordon, Esq	5	1 0	294	..	51·93	274	229
19—INSULAR, OUTER HEBRIDES. 243 sq. mi.								
D Barra (Skallary)	J. Smith, Esq.	8	0 10	30	..	48·82	271	219
S. Uist (Ushenish Light)	Com'rs. of N. Lighthouses .	5	1 0	178	..	49·85	262	219
d Lochmaddy (Vallay)	G. Beveridge, Esq.	5	1 0	30	..	45·82	(320)	(197)
D North Uist (Newton)	J. MacAskill, Esq.	5	1 0	41	..	48·87	281	218
D N. Harris (Amhuinsuidh Castle)	Norman Robertson, Esq...	5	1 3	12	*57·5*	63·58	282	270
ROSS & CROMARTY. (Area, 3,237 sq. mi.)								
1.—NESS—Moriston. 85 sq. mi.								
D Glenmoriston (Cluanie Inn)	Mrs. Macdonald*	5	1 3	630	108·0	125·32	273	246
2.—BEAULY. 109 sq. mi.								
W Monar	Major J. S. Stirling	5	0 9	700	..	(71·24)	..	..
3.—MORAY FIRTH COAST STREAMS. 64 sq. mi								
D Fortrose	A. Thom, Esq, M.A.	5	1 0	69	*23·4*	28·33	173	131
d Fearn (Geanies)	Mr. A. Munro	5	0 11	200	*23·1*	22·96	..	..

* Per Capt. W. N. McClean.

DIVISION XVIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
ROSS & CROMARTY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—CROMARTY FIRTH. 714 sq. mi.								
D Muir of Ord (Fairburn)	Major J. S. Stirling	5	1 0	500	..	38·99	203	183
D Dingwall (The Academy)	The Rector	5	1 0	18	*29·0*	33·53	228	156
Cromarty	Com'rs. of N. Lighthouses	5	1 0	21	*24·4*	24·26	..	..
Delny (Kindeace Gardens)	B.-Gen J. B. Pollok McCall		..	..	..	28·91	..	..
D Alness (Ardross Castle)	Mr. D. M. Sharpe	5	1 0	450	38·5	46·67	230	179
5.—DORNOCH FIRTH. 355 sq. mi.								
D Tain (Ardlarach)	Col. C. MacIver Ritchie	5	1 0	400	*29·4*	32·90	236	156
Tarbetness	Com'rs. of N. Lighthouses	5	1 10	62	*23·0*	22·99	..	
6.—ENARD BAY. 78 sq. mi.								
7.—LOCH BROOM & C. 367 sq. mi.								
Loch a' Bhraoi (Vroain)	Mr. Murdo Mackenzie	8	0 9	820	*62·2*	82·38	..	
Inverbroom House	Mr. Murdo Mackenzie	8	0 7	50	*54·7*	62·02	..	..
D Ullapool	Dr. D. Wallace	5	1 6	75	48·0	50·11	257	204
8.—LOCH EWE, LOCH TORRIDON & C. 423 sq. mi.								
W Kinlochewe (Greenhill)	R. Matheson, Esq.	5	0 9	85	..	79·58	..	..
Loch Maree (Letterewe)	M. MacLennan, Esq.	5	1 0	32	..	66·51	..	..
D Poolewe (Inverewe Gardens)	Mr. G. Beaver	5	0 6	20	*55·2*	63·37	245	229
9.—LOCH CARRON, LOCH ALSH & C. 401 sq. mi.								
D Glenshiel (Ratagan)	Forestry Commission	5	1 0	12	*80·0*	92·67	248	246
D Loch Duich (Inverinate)	J. Finlayson, Esq.	5	1 0	28	..	89·45	264	233
D Loch Carron (Dunhulladale)	Mrs. G. J. Campbell	5	1 0	9	*70·5*	85·71	279	236
Applecross Gardens	Mr. J. McCowan	5	1 6	70	57·3	65·26	..	..
D ACHNASHELLACH	Forestry Commission	5	1 0	225	84·4	87·15	262	241
10.—INSULAR, OUTER HEBRIDES. 691 sq. mi.								
D Stornoway (Leurbost Sch.)	A. Matheson, Esq.	5	0 6	100	..	46·54	251	218
Stornoway Lighthouse	Com'rs. of N. Lighthouses	5	0 6	28	..	48·56	248	215
D STORNOWAY (C. GUARD STN.)	Station Officer (M.O.)	8	1 0	79	49·9	48·16	282	224
d STORNOWAY (MATHESON RD.)	Station Officer (M.O.)	8	1 0	30	..	52·39	..	..
Butt of Lewis Lighthouse	Com'rs. of N. Lighthouses	8	3 9	51	*39·6*	47·95	250	221

DIVISION XIX—NORTHERN COUNTIES.

SUTHERLAND. (Area, 2,080 sq. mi.).								
1.—DORNOCH FIRTH. 413 sq. mi.								
D Skibo Castle Gardens	R. D. Cameron, Esq.	5	1 0	62	..	32·62	228	157
D Lairg	A. Gunn, Esq.	5	1 0	330	37·3	42·10	216	177
2.—FLEET, BRORA & C. 309 sq. mi.								
d Golspie (Technical School)	Wm. A. Macdonald, Esq.	5	1 5	100	..	32·76	(209)	(169)
3.—HELMSDALE & C. 226 sq. mi.								

DIVISION XIX—NORTHERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
SUTHERLAND—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—NORTH COAST STREAMS. 736 sq. mi.								
D Skerray (Borgie)	Forestry Commission	5	1 0	110	37·5	47·96	251	209
D Tongue	Rev. W. J. Lundie	5	1 0	180	41·0	44·25	263	191
D Melvich	A. MacIntosh, Esq.	5	1 0	200	36·0	45·94	186	162
Cape Wrath	Com'rs. of N. Lighthouses	5	0 9	346	..	41·04	270	226
5.—LOCH LAXFORD & C. 256 sq. mi.								
D Loch More (Achfary)	Mr. J. Munro	5	1 0	137	75·8	92·62	292	257
6.—ENARD BAY. 138 sq. mi.								
7.—INSULAR. 2 sq. mi.								
CAITHNESS. (Area, 696 sq. mi.).								
1.—BERRIEDALE, DUNBEATH & C. 169 sq. mi.								
Berriedale (Langwell)	Duke of Portland	5	1 6	150	33·8	37·44	..	..
Clythness	Com'rs. of N. Lighthouses	5	1 5	133	29·6	32·20	..	..
2.—WICK & C. 184 sq. mi.								
D Wick (C. Guard Stn.)	Station Officer (M.O.)	8	1 2	81	29·9	31·80	229	154
Nosshead	Com'rs. of N. Lighthouses	5	0 9	129	25·1	27·89	..	..
3.—THURSO & C. 238 sq. mi.								
D Thurso (Buckies)	J. H. M. Davidson, Esq.	5	0 1	240	39·0	43·77	237	187
Thurso (Holburn Head)	Com'rs. of N. Lighthouses	5	0 8	68	..	38·31	..	..
Dunnet Head	Com'rs. of N. Lighthouses	5	1 0	331	30·2	35·24	..	..
Duncansby Head	Com'rs. of N. Lighthouses	5	..	196	31·4	33·47	..	..
4.—FORSS & C. 104 sq. mi.								
D Reay (The Manse)	Rev. Dugald Carmichael	9	1 0	49	36·2	41·53	271	190
5.—INSULAR. 1 sq. mi.								
Stroma	Com'rs. of N. Lighthouses	5	3 0	54	25·5	31·56	240	183
ORKNEY. (Area, 389 sq. mi.).								
Pentland, Skerries Lighthouse	Com'rs. of N. Lighthouses	5	3 0	70	..	35·24	245	174
Hoy (Cantickhead)	Com'rs. of N. Lighthouses	5	3 10	68	*35·5*	39·20	200	184
Hoy (Graemsay Sound, High)	Com'rs. of N. Lighthouses	5	1 4	29	*35·9*	42·04	235	188
Hoy (Graemsay Sound, Low)	Com'rs. of N. Lighthouses	8	4 4	40	*36·7*	49·13	248	246
d Deerness	W. J. Moar, Esq.	5	1 0	160	35·4	40·29	(267)	(191)
D Kirkwall (Bignold Park)	The Town Council	5	1 0	113	36·9	40·95	249	197
Hellyar Holm	Com'rs. of N. Lighthouses	5	1 3	35	..	36·94	..	175
Auskerry	Com'rs. of N. Lighthouses	5	1 0	22	..	39·24	272	189
Shapinsay (Balfour Castle)	Mr. W. Liddell	5	0 6	50	32·0	38·32	..	..
Sanday (Start Point)	Com'rs. of N. Lighthouses	5	1 0	27	*32·3*	39·01	249	193
North Ronaldshay	Com'rs. of N. Lighthouses	5	0 9	22	..	36·57	208	171
SHETLAND. (Area, 558 sq. mi.).								
D Lerwick (The Nabb C. G. Stn.)	District Officer (M.O.)	8	1 0	156	..	37·16	260	200
D Lerwick Observatory	(+A) Meteorologist-in-Charge	8	1 0	269	38·1	43·86	270	203
Eshaness	Com'rs. of N. Lighthouses		..	..	..	36·50	..	..
D Bixter (Vementry)	Andrew Tait, Esq.	5	1 1	25	..	42·38	256	206
D Baltasound (Halligarth)	T. E. Saxby, Esq., F.R.F.P.S., J.P.	5	1 0	31	42·1	45·08	318	220

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
CORK. (Area, 2873 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—SHANNON—Left Bank Tributaries. 79 sq. mi.								
2.—DINGLE BAY. 4 sq. mi.								
3.—KENMARE & C. 47 sq. mi.								
4.—BANTRY BAY. 197 sq. mi.								
D Garinish Island	M. Mackenzie, Esq.	5	1 0	24	*70·4*	63·53	209	180
5.—DUNMANUS BAY. 57 sq. mi.								
6.—BANDON & C. 694 sq. mi.								
D Castle Townshend (Glen Barrahane)	Sir M. P. Coghill, Bt.	5	1 3	100	*44·7*	44·33	190	157
D Castle Townshend (Seafield)	Major H. Chavasse	5	1 0	40	*47·6*	45·36	195	159
D Skibbereen (Hollybrook Farm)	Capt. C. M. Morgan	8	1 6	60	*53·6*	53·25	198	174
D Caheragh (The Rectory)	Rev. A. W. Whitley	5	1 0	98	*56·7*	56·53	213	179
Clonikilty (Shannon Vale Ho.)	T. J. Bennett, Esq.	5	1 3	135	..	41·00	..	..
D Kinsale (Scilly House)	J. J. Orr, Esq., M.D	5	1 0	62	*38·5*	37·70	188	147
D Kinsale (Nohoval Rectory)	Rev. H. Hadden	5	0 6	272	*39·0*	34·16	169	136
D Dunmanway (The Rectory)	Rev. Canon A. Wilson	5	1 6	205	61·0	63·70	225	184
7.—CORK HARBOUR. 726 sq. mi.								
D Cork (University College) (+A)	Prof. H. N. Walsh	5	1 0	57	40·0	42·03	206	149
D Cork (University College Farm)	Prof. C. Boyle	5	1 11	75	..	45·70	186	143
D Cork (Wellington Road)	R. C. Sikes, Esq., C.E.	5	2 2	120	*40·3*	43·41	201	156
D Midleton (Ballinacurra)	J. H. Bennett, Esq.	8	1 0	24	40·4	40·72	191	146
D Glanmire (Lota Lodge)..No. 1	A.F.Sharman-Crawford,Esq.	5	1 0	200	42·6	44·67	205	160
8.—WOMANAGH & C. 118 sq. mi.								
D Roches Point (C. Guard Station)	Miss Roche (M.O.)	8	1 0	22	41·9	40·04	188	159
D Shanagarry (Kinoith)	Miss L. P. Strangman	5	1 11	75	*35·2*	33·40	174	130
9.—BLACKWATER. 922 sq. mi.								
D Mallow (Longueville)	Major L. Longfield,	5	1 0	310	37·3	42·37	264	178
D Mallow (Hazlewood)	E. MacLysaght, Esq.	5	1 11	360	*39·5*	35·44	224	167
Kanturk (Castlecor)	Mrs. Norton Barry	..	..	..	*37·6*	38·23	256	176
10.—SUIR. 3 sq. mi.								
11.—INSULAR. 26 sq. mi.								
KERRY. (Area, 1851 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 372 sq. mi.								
D Ballylongford Rectory	Rev. C. Murray	5	3 6	60	..	41·62	230	196
2.—TRALEE BAY & C. 221 sq. mi.								

DIVISION XX.—MUNSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
KERRY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—DINGLE BAY. 789 sq. mi.								
D VALENTIA OBSERVATORY (+A).	...The Superintendent.....	8	1 3	30	55·7	62·04	255	205
M Gap of Dunloe (Gearhameen)	.....J. Casey, Esq., for M.O.....	8	3 0	75	94·0	98·30	..	..
D Killarney (Flesk Mills)	.....J. Lawlor, Esq.....	8	2 6	96	*54·9*	63·09	225	186
d Killarney (Mental Hospital)	.....Resident Medical Super.	5	1 2	173	54·7	(56·03)	(226)	(183)
D Killarney (Lakeview)	..... Capt.Sir M.O'Connell,Bt.,M.C.	5	1 0	120	*55·5*	62·98	219	191
Killorglin (Callinafercy)	.....Maj. M. R. Leeson-Marshall.	5	1 6	40	*51·9*	47·73	..	..
d Bally McElligott Rectory	.....Rev. G. Maxwell	5	0 11	20	..	44·20	219	185
4.—KENMARE & C. 426 sq. mi.								
D Darrynane Abbey	.....Miss F. O'Connell	5	1 0	13	51·0	51·12	254	201
D Kenmare (Dromore Castle)	.....Lt.-Col. E. Hood.....	5	0 9	90	*65·1*	69·75	258	214
D Kenmare (Sheen Falls)	.....Marquess of Lansdowne....	5	0 11	25	*65·6*	80·19	263	215
5.—BLACKWATER. 30 sq. mi.								
6.—INSULAR. 13 sq. mi.								
WATERFORD. (Area, 715 sq. mi.)								
1.—BLACKWATER. 243 sq. mi.								
2.—COLLIGAN & C. 259 sq. mi.								
3.—SUIR. 213 sq. mi.								
D Knockaderry Reservoir (No. 2)	....D. Sheedy, Esq.....	5	1 0	248	*41·3*	45·44	193	140
D WATERFORD (Gortmore)	.....Mrs. N. H. White.....	5	1 2	137	38·9	39·09	198	145
D Portlaw (Mayfield)	.....M. Sheehan, Esq.	5	0 10	25	..	44·88	205	151
D CARRICK-ON-SUIR (Seskin)	.....L. Grubb, Esq.	8	1 0	535	*45·0*	47·96	238	155
TIPPERARY. (Area, 1660 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 582 sq. mi.								
D Birdhill (Parteen Weir)	.....Electricity Supply Board...	5	2 0	100	..	35·54	222	170
D Nenagh (Traverston)	.....Miss A. H. Norris.....	5	1 0	333	*45·2*	44·55	270	191
D Nenagh (Castle Lough)	.....S. Parker-Hutchinson, Esq..	5	1 3	120	39·5	43·00	251	191
D Cloughjordan (Modreeny)	.....Capt. G. W. Whitfield.....	5	1 6	275	..	32·93	219	178
D Roscrea	.....Electricity Supply Board...	5	..	..	..	31·89	229	160
d Borrisokane	.....Electricity Supply Board...	5	1 10	200	..	41·25	..	..
Terryglass (Slevoyre)	.....B.-Gen. C. J. Hickie, C.M.G..	8	1 0	143	*31·9*	32·37	229	161
2.—BLACKWATER. 21 sq. mi.								
3.—SUIR. 965 sq. mi.								
D Cahir (Abbey)	.....Mrs. W. Rochfort.....	5	1 0	160	39·2	36·60	208	166
D Cashel (Ballinamona)	.....E. W. M. Murphy, Esq.....	5	1 0	262	36·8	35·19	223	159
4.—BARROW—Nore. 92 sq. mi.								
D Roscrea (Timoney Park)	.....S. Parker-Hutchinson, Esq..	5	1 0	475	*36·2*	37·82	186	162
LIMERICK. (Area, 1040 sq. mi.)								
1.—SHANNON—Right Bank Tributaries. 7 sq. mi.								

DIVISION XX.—MUNSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
LIMERICK—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—SHANNON—Left Bank Tributaries. 944 sq. mi.								
d Abbeyfeale (Springmount Sch.)	J. F. O'Kelly, Esq.	5	1 0	360	*41·1*	40·28	..	..
d Knocklong (Kilfrush)	Mrs. Gubbins.	5	1 3	312	*37·8*	34·91	..	..
D Ballingarry Presbytery	Rev. Thomas Hogan	5	1 0	308	..	33·07	235	175
D Foynes (Coolnanes)	The Lord Monteagle, C.M.G., M.V.O.	8	1 0	43	39·4	36·90	240	181
D Foynes (National School)	W. Purtill, Esq.	5	1 0	15	*39·5*	33·80	215	173
D Pallaskenry	T. O'Byrne, Esq.*	8	1 0	20	..	35·32	232	176
D Limerick (Mulgrave Street)	Messrs. W. J. Shaw & Sons.	5	1 1	60	*38·5*	37·36	239	193
D Limerick (Boat Club)	W. J. C. Horne, Esq.	5	1 0	50	*38·6*	36·47	245	205
D Castleconnell Rectory	Rev. Canon L. G. Davis.	5	1 0	88	*41·2*	37·04	190	158
3.—BLACKWATER. 64 sq. mi.								
4.—SUIR. 25 sq. mi.								
CLARE. (Area, 1270 sq. mi.)								
1.—GALWAY BAY, SOUTH. 100 sq. mi.								
2.—MAL BAY & C. 294 sq. mi.								
D Inagh (Mount Callan)	Capt. R. G. Tottenham.	5	1 0	479	*67·2*	66·12	228	219
3.—SHANNON—Right Bank Tributaries. 854 sq. mi.								
D Ardnacrusha (Power Station)	A. St. J. Kennedy, Esq.	5	1 6	89	..	38·73	204	178
D Dromoland Castle	Dowager Lady Inchiquin.	5	1 6	45	*40·0*	41·94	239	198
D Broadford (Hurdlestown)	Lt.-Col. W. A. Bentley.	5	1 0	167	*39·7*	41·04	253	188
D Tuamgraney (Raheen Ho.)	E. MacLysaght, Esq.	5	1 0	190	*41·9*	51·28?	231	207
4.—INSULAR. 22 sq. mi.								

DIVISION XXI.—LEINSTER.

WEXFORD. (Area, 902 sq. mi.)								
1.—BARROW. 43 sq. mi.								
2.—OWENDUFF & C. 240 sq. mi.								
D Foulks Mills (Longraigue)	Miss J. Deane.	5	1 1	220	39·3	40·60	193	150
3.—SLANEY & C. 467 sq. mi.								
D Enniscorthy (Woodbrook)	Col. S. W. W. Blacker, D.S.O. .	5	1 0	370	*48·8*	53·82	209	192
4.—OWENAVORRAGH & C. 146 sq. mi.								
D Gorey (Courtown House)	Earl of Courtown.	5	1 0	60	34·7	40·53	190	143
D Gorey (Ram's Gate)	Lt.-Cmdr. A.C.L. Ellis, R.N.R.	5	4 2	170	..	39·45	185	156
5.—OVOCA & C. 6 sq. mi.								
KILKENNY. (Area, 798 sq. mi.)								
1.—SUIR. 162 sq. mi.								
D Piltown (Bessborough)	The Earl of Bessborough.	8	3 7	60	..	39·60	204	137

* *Per* Irish Rainfall Association.

DIVISION XXI.—LEINSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
KILKENNY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—BARROW—Nore. 527 sq. mi.								
D Thomastown (Mall House)	J. Molony, Esq	.	..	90	..	39·74	195	139
D Castlecomer House	Capt. R. H. Prior-Wandesforde	5	1 0	380	*39·6*	39·64	216	174
3.—BARROW. 109 sq. mi.								
WICKLOW. (Area, 781 sq. mi.)								
1.—BARROW. 12 sq. mi.								
2.—SLANEY. 200 sq. mi.								
D Shillelagh (Coollattin Gardens)	Mr. F. W. Cox	5	0 9	383	41·9	35·33	191	155
3.—OVOCA & C. 241 sq. mi.								
D Rathdrum (Avondale)	Lands & Fisheries Dept.	5	1 0	400	..	49·69	182	155
4.—VARTRY & C. 193 sq. mi.								
D Rathnew (Clonmannon)	R. H. S. Truell, Esq	5	1 6	27	*33·1*	40·23	197	144
D Roundwood (Vartry Lodge)	Dublin Corporation	5	1 3	720	*45·0*	41·51	194	156
d Roundwood	Dublin Corporation*	5	1 8	750	*44·6*	48·07	(184)	(151)
D NEWCASTLE (Killadreenan)	The Med. O. Nat. Hos. Cons.	8	1 2	256	*36·0*	41·25	189	146
D Delgany (Elsinore)	Miss N. G. Moore	8	1 4	260	..	43·25	201	141
D Greystones (Burnaby Lodge)	Capt. C. H. West	5	1 0	95	..	39·36	173	123
5.—LIFFEY & C. 135 sq. mi.								
D Blessington Rectory	Rev. W. Reeves Scully	5	0 8	670	*38·0*	35·40	238	183
CARLOW. (Area, 346 sq. mi.)								
1.—BARROW—Nore. 9 sq. mi.								
2.—BARROW. 216 sq. mi.								
D Bagnalstown (Fenagh House)	D.R.P.Beresford,Esq.O.B.E.	5	1 0	340	34·9	32·75	213	151
D Carlow (Browne's Hill)	B.-Gen. R. Browne Clayton.	5	1 0	291	34·1	27·12	176	134
3.—SLANEY. 121 sq. mi.								
D Hacketstown Rectory	Rev. C. S. S. Ellison	5	1 6	590	39·5	39·23	229	165
LEIX (Area, 664 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 25 sq. mi.								
2.—BARROW—Nore. 339 sq. mi.								
D Abbey Leix (Blandsfort)	Mrs. Hum Bland	5	1 0	532	36·5	35·28	207	165
D Mountrath (Baunreagh)	Lands & Fisheries Dept.	5	1 0	810	..	57·43	223	192
3.—BARROW. 300 sq. mi.								
D MOUNTMELLICK (Summer Grove)	W. A. Robinson, Esq.	5	1 0	252	*38·5*	39·03	222	173

* *Per* Irish Rainfall Association.

DIVISION XXI.—LEINSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more	1934. Days with ·04 in. or more.
OFFALY. (Area, 772 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—SHANNON—Left Bank Tributaries. 560 sq. mi.								
D BIRR CASTLE	The Earl of Rosse	8	1 0	173	32·6	34·69	223	162
D Meelick (Victoria Lock)	Office of Public Works	5	1 0	121	*29·9*	32·39	232	166
D Banagher	Electricity Supply Board	5	1 6	130	*30·8*	31·38	183	157
D Ferbane (Turraun Peat Works)	Leinster Carbonizing Co.	8	1 2	165	*32·5*	30·11	185	153
D Ballycumber (Bellair Ho.)	Mrs. F. B. Mulock	5	..	290	*33·9*	32·85	242	167
2.—BARROW—Nore. 5 sq. mi.								
3.—BARROW. 156 sq. mi.								
Edenderry (Tubberdaly Ho.)	J. Murphy, Esq	5	1 6	330	*33·5*	35·73	..	..
4.—BOYNE. 51 sq. mi.								
D Edenderry (The Tunnel)	C. T. Calwell, Esq	8	3 7	265	..	29·91	174	143
KILDARE. (Area, 654 sq. mi.)								
1.—BARROW. 332 sq. mi.								
D Athy (Moone)	E. Shackleton, Esq.	5	0 10	..	..	35·09	232	161
D Athy (Cromaboo Bridge)	Office of Public Works	5	0 11	185	..	29·61	182	134
D Monasterevin (Pass Bridge)	Office of Public Works	5	0 8	208	..	28·82	203	152
2.—LIFFEY. 246 sq. mi.								
D Straffan House	F. B. Barton, Esq	5	1 0	256	31·4	30·72	199	165
D Clongowes Wood College	The Principal	8	1 4	246	*30·2*	29·65	216	152
3.—BOYNE. 76 sq. mi.								
DUBLIN. (Area, 354 sq. mi.)								
1.—VARTRY & C. 23 sq. mi.								
D Shankill (Sherrington)	Lt.-Col. J. C. W. Erck	5	1 0	115	*29·6*	31·78	168	117
D Carrickmines (Claremount)	Mrs. W. A. Ormsby	5	0 11	300	..	29·65	182	125
Killiney (Rathleigh)	H. R. Maunsell, Esq	5	3 6	..	*28·1*	30·49	..	..
2.—LIFFEY & C. 188 sq. mi.								
D Stillorgan (Vartry Ho.)	Dublin Corporation	5	1 0	264	*28·0*	33·74	182	141
D Stillorgan (Service Reservoir)	Dublin Corporation	5	1 0	265	..	33·46	184	139
D Stillorgan (Farmleigh)	T. Jackson, Esq	5	1 1	220	*32·8*	31·11	185	143
D Kingstown (Harbour Yard)	Office of Public Works	8	1 0	52	*28·3*	27·44	171	117
D Kingstown (Tivoli Terr. S.)	Capt. L. B. Merideth	5	1 0	131	..	26·60	169	118
D Kingstown (People's Park)	Dr. T. J. Lydon	8	1 6	25	..	24·54	197	125
D RATHFARNHAM Castle	The Rev. Father the Rector.	8	1 0	169	*28·4*	28·31	201	132
D Rathmines (Neville Road)	T. H. Mason, Esq	5	1 0	100	*28·0*	28·69	185	146
D Donnybrook (Anglesea Road)	F. C. D. Joynt, Esq	5	1 0	30	*27·9*	29·58	192	137
D DUBLIN CITY (FitzWilliam Square)	Sir J. W. Moore, M.D., D.Sc.	8	1 6	54	27·4	24·96	193	128
D Dublin (Ringsend Pumpg. Stn.)	H. Nicholls, Esq.	10	0 9	23	*26·3*	21·89 ?	164	115
D DUBLIN (TRINITY COLLEGE)	R. W. Ditchburn, Esq	8	1 0	13	26·1	24·86	187	128
D DUBLIN (PHŒNIX PARK)	The Director of O.S. Office	8	1 0	155	27·6	26·17	200	141
D HAZELHATCH (PEAMOUNT SAN.)	The Superintendent	5	1 0	366	..	27·07	198	143
D Clontarf (Pumping Station)	H. Nicholls, Esq.	5	3 9	17	*24·4*	26·08	197	135
D GLASNEVIN (Botanic Gardens)	The Keeper	8	1 0	55	27·9	27·65	202	131
D Howth (Danesfort)	Mrs. H. E. Guinness	5	1 0	460	..	29·28	172	132
D Howth Castle	J. Gaisford St. Lawrence, Esq.	5	1 6	35	*28·7*	26·87	182	135

DIVISION XXI.—LEINSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
DUBLIN—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—NANNY, DELVIN & C. 142 sq. mi.								
D Malahide (Seamount)	J. G. Jameson, Esq.	5	1 0	150	*28·0*	28·93	202	146
D Lusk (Nevitt)	W. Monks, Esq.	5	1 0	139	*29·2*	26·31	191	133
D Skerries (Milverton Hall)	Capt. E. G. Woods	5	1 0	190	*28·0*	28·27	191	137
D Balbriggan (Ardgillan)	No.1. Capt. E. R. Taylor	5	1 0	203	29·0	27·73	209	136
4.—INSULAR. 1 sq. mi.								
D Lambay Island	Lord Revelstoke	5	1 0	20	*27·4*	25·18	156	125
MEATH. (Area, 909 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 32 sq. mi.								
2.—LIFFEY & C. 72 sq. mi.								
D Dunboyne (Stirling, Clonee)	Mr. J. Pilkington	8	1 0	231	*33·3*	28·40	184	140
3.—NANNY, DELVIN & C. 150 sq. mi.								
4.—BOYNE. 560 sq. mi.								
D Summerhill House	Mr. W. Lauder	5	1 0	372	*33·7*	29·85	185	153
D Dunsany Castle Gardens	Mr. J. B. Pow	5	1 0	323	*33·8*	27·86	194	156
D Navan (Tara Hall)	C. Moore-Brabazon, Esq.	5	1 3	350	..	29·56	199	158
D Athboy (Frayne)	Dr. Beryl F. E. Moore	5	0 9	310	..	30·61	225	157
Navan (Boyne View)	C. F. Watkins, Esq.	5	0 8	150	..	35·69	..	..
D Beauparc (St. Cloud)	W. J. Hopkins, Esq.	5	1 0	215	*31·5*	32·23	207	153
D Kells (Headfort)	The Marquis of Headfort	8	1 0	227	37·0	31·94	214	159
5.—DUNDALK BAY. 95 sq. mi.								
WESTMEATH. (Area, 712 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 517 sq. mi.								
D Athlone	Office of Public Works	5	1 0	116	..	38·31	203	177
Athlone (Twyford House)	J. P. Hodson, Esq.	5	1 0	187	37·0	39·30	222	..
D Moate (Coolatore)	H. A. S. Upton, Esq.	5	1 6	369	*33·5*	33·37	240	158
D Mullingar (Belvedere House)	Mr. G. W. Roberts	5	1 0	367	36·3	39·29	232	174
d Mullingar (Ballynegall Gardens)	Major Hawkesworth Smyth.	5	2 3	337	*39·0*	31·95?	219	193
D Castlepollard (Pakenham Hall)	The Earl of Longford	5	3 0	300	*36·6*	37·94	231	167
2.—BOYNE. 195 sq. mi.								
LOUTH. (Area, 316 sq. mi.)								
1.—BOYNE. 32 sq. mi.								
2.—DUNDALK BAY & C. 264 sq. mi.								
D Dundalk (Ravensdale)	The Surveyor	8	0 10	200	..	36·38	217	163
Dundalk (Aughneskea Res.)	The Surveyor	5	0 10	207	..	41·43	..	..
3.—CARLINGFORD LOUGH. 20 sq. mi.								
D Greenore	S. Wilson, Esq.	5	1 3	20	31·9	34·33	182	153

DIVISION XXI.—LEINSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
LONGFORD. (Area, 424 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—ERNE. 61 sq. mi.								
d Granard	Electricity Supply Board...	5	1 6	..	..	44·84	(212)	(181)
2.—SHANNON—Left Bank Tributaries. 363 sq. mi.								
D Ballymahon (New Castle)	Col. W. A. King-Harman..	5	1 0	200	*36·7*	40·11	236	176
Longford (The Rectory)	Rev. H. Justice.....	5	1 0	185	*37·8*	39·05	217	178
D Cloondrah	Office of Public Works.....	5	1 0	132	*31·5*	34·98	232	172
D NEWTOWNFORBES (Cas. For. Gdns.)	J. Boyle for The Earl of Granard	8	1 0	154	37·6	41·33	204	189
d Gaigue School	Electricity Supply Board...	5	1 9	390	..	39·26	(191)	(153)

DIVISION XXII.—CONNAUGHT.

GALWAY. (Area, 2377 sq. mi.)

1.—ERIFF & C. 141 sq. mi.

2.—GALWAY BAY NORTH. 277 sq. mi.

3.—CORRIB. 846 sq. mi.

d Galway (Grammar School)	The Headmaster.....	5	1 0	64	40·0	40·06	..	..
d Moycullen (Moycullen Ho.)	Major S. Perry.....	5	1 0	400	..	(54·11)	(262)	(212)
D Ballynahinch Castle	H.H.Maharaja of Nawanagar	5	1 9	41	61·0	69·62	265	227
D Tuam Palace Gardens	G. H. Greenham, Esq.....	5	1 0	140	..	44·04	252	196
Tuam (Gardenfield)	R. J. Kirwan, Esq., C.E....	5	1 0	155	44·1	43·81	..	..

4.—GALWAY BAY, SOUTH. 281 sq. mi.

5.—SHANNON—Right Bank Tributaries. 803 sq. mi.

D Portumna	Electricity Supply Board...	5	3 0	..	..	32·41	226	164
d Ballinasloe B.N.S.	Electricity Supply Board...	5	..	150	36·7	38·79	..	..
d Ahascragh (Clonbrock).. (*new g*)	The Hon. Miss Dillon.....	5	1 0	198	41·6	42·97	(200)	(179)
d Mt. Bellew B.N.S.	Electricity Supply Board...	5	1 8	200	..	(42·84)	(231)	(191)
D Ballygar	Electricity Supply Board...	5	..	200	..	34·40	216	170
D Glenamaddy	Electricity Supply Board ..	5	2 0	..	..	37·82	187	165

6.—INSULAR. 29 sq. mi.

ROSCOMMON. (Area, 961 sq. mi.)

1.—SLIGO BAY. 6 sq. mi.

2.—MOY. 11 sq. mi.

3.—CORRIB. 16 sq. mi.

4.—SHANNON—Right Bank Tributaries. 928 sq. mi.

D Roscommon	Electricity Supply Board ...	5	..	..	..	38·33	223	196
D Lanesborough	Electricity Supply Board...	5	1 6	140	..	37·19	193	181
D Strokestown (Castlenode)	W. J. Walpole, Esq.....	5	1 0	160	35·0	40·19	224	176

MAYO. (Area, 2149 sq. mi.)

1.—SLIGO BAY. 10 sq. mi.

2.—MOY & C. 797 sq. mi.

D Castlebar Rectory	Rev. J. Jackson.....	5	1 0	145	*50·0*	53·92	265	225
D Ballina (The Rectory)	Rev. C. J. A. Harris, B.A. ..	12	2 6	75	..	54·91	239	186

DIVISION XXII.—CONNAUGHT—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in or more.
MAYO—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—BLACKSOD BAY & C. 411 sq. mi.								
BLACKSOD POINT	Sub-Postmistress (M.O.)	8	1 0	18	49·7	56·86	268	224
4.—CLEW BAY. 254 sq. mi.								
I Westport House	The Marquess of Sligo	5	1 0	35	46·6	53·71	261	216
L MALLARANNY	Chief Eng. G.S. Ry. Dublin.	5	1 0	113	*59·8*	66·27	254	231
5.—ERIFF & C. 121 sq. mi.								
D Aasleagh House	The Marquess of Sligo	5	1 0	30	95·2	120·31	269	243
D Delphi Lodge	The Marquess of Sligo	5	1 0	110	99·0	116·29	275	255
6.—CORRIB. 432 sq. mi.								
D Claremorris (Castle MacGarrett)	Lord Oranmore and Browne.	5	1 0	200	..	44·21	263	221
7.—SHANNON—Right Bank Tributaries. 35 sq. mi.								
8.—INSULAR. 89 sq. mi.								
SLIGO. (Area, 716 sq. mi.)								
1.—DROWES & C. 49 sq. mi.								
2.—SLIGO BAY. 444 sq. mi.								
D Collooney (MARKREE CAS.)	The late Mjr. Cooper's Trus.	5	1 0	122	43·3	46·10	256	218
D Sligo (Ard-na-veagh)	R. J. Kirwan, Esq., C.E.	5	1 0	90	*41·5*	45·59	258	211
3.—MOY & C. 166 sq. mi.								
4.—SHANNON—Right Bank Tributaries. 56 sq. mi.								
5.—INSULAR. 1 sq. mi.								
LEITRIM. (Area, 615 sq. mi.)								
1.—ERNE. 152 sq. mi.								
2.—DROWES & C. 85 sq. mi.								
3.—SLIGO BAY. 135 sq. mi.								
4.—SHANNON—Right Bank Tributaries. 47 sq. mi.								
5.—SHANNON—Left Bank Tributaries. 196 sq. mi.								
D Cloone	Electricity Supply Board	5	1 6	210	..	42·03	223	177
D Drumshanbo (Lough Allen Sluice)	Office of Public Works	5	1 0	169	*36·6*	36·45	261	189

DIVISION XXIII.—ULSTER.

CAVAN. (Area, 753 sq. mi.)

1.—ERNE. 489 sq. mi.								
D Crossdoney (Kevit Castle)	Dr. F. P. Smith	5	1 0	211	*35·5*	41·17	232	184
d Killeshandra (Castle Hamilton)	Guy Hamilton, Esq.	5	1 0	..	..	(39·24)	..	..
2.—SHANNON—Right Bank Tributaries. 84 sq. mi.								
D Glangevlin	Electricity Supply Board	5	2 6	500	..	62·17	219	204
3.—SHANNON—Left Bank Tributaries. 91 sq. mi.								
4.—BOYNE. 122 sq. mi.								
5.—DUNDALK BAY. 17 sq. mi.								

DIVISION XXIII.—ULSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
FERMANAGH. (Area, 713 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—ERNE. 667 sq. mi.								
D Newtownbutler (Crom Castle)	G. R. J. Corbett, Esq.	5	1 1	200	38·7	37·05	251	183
D Florencecourt	Earl of Enniskillen	5	1 0	274	..	57·06	260	194
D Enniskillen (Castle Coole)	Lady Dorothy Lowry-Corry.	5	1 0	240	*41·0*	38·55	254	181
Enniskillen (Technical School)	J. W. Mansfield, Esq.	5	0 10	165	..	35·22	..	..
d Enniskillen (Portora School)	The Headmaster	5	1 0	251	*40·3*	34·70	..	..
D Colebrooke	Sir Basil Brooke, Bt.	5	1 6	250	..	40·92	250	184
D Belleek (Roscor)	Mrs. Dick	5	1 0	500	..	59·02	285	250
D Belleek (Heronshaw)	T. Beacom, Esq.	5	1 2	150	*45·5*	48·90	228	221
D Castle Archdale	Mrs. Archdale	5	1 0	247	..	40·96	245	189
2.—DROWES & C. 46 sq. mi.								
MONAGHAN. (Area, 498 sq. mi.)								
1.—ERNE. 208 sq. mi.								
2.—DUNDALK BAY. 132 sq. mi.								
3.—BANN—Lough Neagh, West. 158 sq. mi.								
ARMAGH. (Area, 514 sq. mi.)								
1.—DUNDALK BAY. 118 sq. mi.								
Crossmaglen (Anamar)	P. Norris, Esq.	5	1 1	384	*36·2*	34·13	160	143
2.—CARLINGFORD LOUGH. 23 sq. mi.								
D Bessbrook (The Woodhouse)	J. S. W. Richardson, Esq.	5	1 0	260	*37·2*	39·57	221	165
3.—BANN—Lough Neagh, East. 37 sq. mi.								
D Lurgan (Belle Vue) *new g*	S. A. Bell, Esq., J.P.	5	1 0	200	29·7	28·06	210	142
4.—BANN, UPPER. 144 sq. mi.								
5.—BANN—Lough Neagh, West. 192 sq. mi.								
D Tynan Abbey	Capt. C. N. L. Stronge	5	1 0	167	..	34·16	220	174
D ARMAGH (Observatory)(+A)	The Dir. of Obsy. (M.O.)	8	1 0	204	31·7	34·30	218	167
D Richhill (Sandymount)	Mrs. C. B. Lamb	5	1 6	200	*29·3*	32·14	202	156
DOWN. (Area, 961 sq. mi.)								
1.—CARLINGFORD LOUGH. 104 sq. mi.								
D Newry (Bridge Street House)	C. Blaney, Esq.	5	1 0	23	38·1	37·19	208	158
2.—DUNDRUM BAY & C. 173 sq. mi.								
D Silent Valley (Belfast W.W.) *new g*	C. F. Wheeler, Esq., C.E.	5	1 0	426	..	56·10	235	179
D Annalong (Belfast W.W.)	C. F. Wheeler, Esq., C.E.	5	2 9	435	*47·5*	50·02	220	170
D Mourne Mount'ns (Fofanny Res.)	J. E. Croasdaile, Esq., M.A.	5	1 0	938	*64·4*	81·52	198	178
D Seaforde	T. W. Forde, Esq.	8	1 0	180	38·3	41·57	221	167
3.—STRANGFORD LOUGH. 260 sq. mi.								
D Strangford	G. L. Hildebrand, Esq.	5	0 8	30	..	34·62	190	153
D Saintfield House	Rev. E. H. Blackwood-Price.	5	0 9	300	*34·9*	39·95	242	156
Newtownards (Grey Abbey)	H. H. K. Worsley, Esq.	5	0 6	10	..	34·16	208	167
4.—COAST STREAMS. 47 sq. mi.								
D DONAGHADEE (C. Guard Stn.)	Senior Coastguard (M.O.)	8	1 0	40	31·3	36·47	229	163
D Donaghadee (Craigmore)	Dr. S. B. Coates.	5	1 0	60	*30·6*	34·84	210	154
D Donaghadee (Orlock Reservoir)	The Resident Engineer	5	1 0	43	..	34·29	195	150

DIVISION XXIII.—ULSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
DOWN—(*con.*).		*in.*	*ft.in.*	*ft.*	*in.*	*in.*		
5.—BELFAST LOUGH. 206 sq. mi.								
Annaghanoon	W. J. Gibson, Esq.	5	1 0	200	..	31·15	..	..
D Waringstown (The Forge)	W. J. Gibson, Esq.	5	1 0	187	32·2	31·98	222	153
D HILLSBOROUGH (Research Stn.)	The Secretary	5	1 0	388	..	33·48	208	162
6.—BANN—Lough Neagh, East. 7 sq. mi.								
7.—BANN, UPPER. 162 sq. mi.								
Banbridge (Observatory)	H. D. Fleming, Esq.	5	1 6	210	*32·1*	35·72	227	148
D Banbridge (Milltown)	J. E. Kennedy, Esq.	5	1 0	200	31·0	29·80	204	144
D Portadown (Moyallon House)	Mr. J. Eccles	5	0 7	130	*32·6*	29·36	202	147
8.—INSULAR. 2 sq. mi.								
ANTRIM. (Area, 1193 sq. mi.)								
1.—BELFAST LOUGH. 107 sq. mi.								
D LISBURN (School)	The Headmaster	8	1 6	208	34·1	34·81	221	159
D Lambeg (Glenmore House)	Linen Industry Res. Assn.	8	0 11	100	..	36·96	228	172
D Dunmurry (Warren House)	Col. H. R. Charley	5	0 10	110	..	38·46	233	170
D Belfast (Queen's University)	J. A. Badger, Esq.	5	1 0	62	34·5	39·47	212	174
D Belfast (Sewage Works)	R. B. Donald, Esq., C.E.	8	1 0	26	*35·8*	38·85	210	155
D Belfast (Cave Hill Road)	Miss C. Firth	5	1 0	200	*40·2*	42·49?	274	183
D Belfast (Oldpark Filters) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	203	..	37·90	204	158
D§Carrickfergus (Dorisland) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	250	..	39·90	214	168
D Carrickfergus (S. Woodburn) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	640	..	48·09	220	181
D Carrickfergus (N. Woodburn) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	735	..	49·57	224	181
D Carrickfergus (Copeland) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	427	..	44·47	230	172
D Carrickfergus (L. Mourne) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	596	..	46·25	232	175
2.—GLENARM & C. 186 sq. mi.								
D Larne (Sallagh Springs)	J. E. Croasdaile, Esq., M.A.	5	1 0	566	*50·0*	49·00	227	188
3.—BUSH & C. 193 sq. mi.								
D Ballycastle (Magherintemple)	Capt. J. Casement, D.S.O.	5	1 0	230	*42·6*	45·01	243	190
4.—BANN, LOWER. 112 sq. mi.								
5.—BANN—Lough Neagh, East. 590 sq. mi.								
D Stoneyford (Belfast W.W.) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	453	..	40·68	214	176
D ALDERGROVE (Aerodrome) (+A)	Meteorological Officer	8	1 0	238	33·0	36·25	227	163
D Randalstown (Hollybrook)	N. F. Webb, Esq.	5	1 0	120	..	38·34	246	176
D Ballymena (Harryville)	J. R. Williams, Esq.	5	1 5	150	41·5	43·93	245	205
D Broughshane (Quolie)	H. O'Hara, Esq., C.E.	5	1 3	864	*47·3*	49·62	260	205
6.—INSULAR. 5 sq. mi.								
LONDONDERRY. (Area, 816 sq. mi.)								
1.—LOUGH SWILLY. 6 sq. mi.								
D Londonderry (Dunruadh)	J. H. Welch, Esq.	5	0 6	130	*40·5*	42·16	253	207
2.—BUSH & C. 9 sq. mi.								
3.—BANN, LOWER. 240 sq. mi.								
W Upperlands (Ardtara)	H. J. Clark, Esq.	5	1 4	250	..	41·89	..	..
D Garvagh (Moneydig)	J. Porter, Esq.	5	1 0	121	..	41·04	255	185
D Coleraine (Ingledene)	W. R. Johnston, Esq.	5	6 0	55	..	35·81	234	184
4.—BANN—Lough Neagh West. 196 sq. mi.								

§Gauge over-exposed.

DIVISION XXIII.—ULSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1934. Rainfall.	1934. Days with ·01 in. or more.	1934. Days with ·04 in. or more.
LONDONDERRY—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—FOYLE & C. 365 sq. mi.								
M Glenedra (Spelhoagh Mountain)	W. Criswell, Esq., C.E.	5	1 0	1333	*60·0*	72·09	..	..
M Glenedra Hill	W. Criswell, Esq., C.E.	5	1 0	1333	*62·5*	72·17	..	..
M Glenedra Lodge	W. Criswell, Esq., C.E.	5	1 0	950	*55·6*	66·11	..	..
M§Glenedra (Altagarran Mountain)	W. Criswell, Esq., C.E.	5	1 0	1230	..	64·08	..	..
Dungiven (Labbyheige)	W. Criswell, Esq., C.E.	5	1 0	1150	..	64·03	..	..
M Altnaheglish (Altabrogy Burn)	W. Criswell, Esq., C.E.	5	1 0	967	..	63·21	..	..
M Glenedra Intake	W. Criswell, Esq., C.E.	5	1 0	740	..	60·80	..	..
M Altnaheglish (Glack Burn)	W. Criswell, Esq., C.E.	5	1 0	967	..	55·78	..	..
D Dungiven (Banagher Filters)	W. Criswell, Esq., C.E.	5	1 0	373	..	57·05	257	201
D Londonderry (Creggan Res.)	Mr. W. Hutchison	8	1 0	325	41·8	45·91	279	219
D Limavady (Roevista Manse)	Rev. W. Browne	5	1 0	70	*37·0*	33·87	216	178
D Limavady (Drenagh)	M. M. McCausland, Esq.	5	1 6	80	37·0	35·67	241	175
Bellarena	Sir F. G. Heygate, Bt.	5	4 0	12	38·4	36·55	..	..
TYRONE. (Area, 1257 sq. mi.)								
1.—ERNE. 46 sq. mi.								
2.—BANN—Lough Neagh, West. 442 sq. mi.								
D Dungannon (Aloha)	Major R. Stevenson	5	1 0	275	*37·2*	43·72	252	191
D Castlecaulfield (Parkanaur)	Capt. Y. A. Burges	8	0 6	250	..	45·23	231	178
3.—FOYLE. 769 sq. mi.								
D Omagh (Edenfell)	Miss H. M. Buchanan	8	1 0	280	40·1	43·16	255	205
D Newtown Stewart (Barons Ct.)	Capt. E. W. Ross	5	2 4	250	*43·0*	40·20	228	191
D Sion Mills (Sion House)	Capt. J. C. Herdman	5	1 0	100	*39·0*	42·55	246	199
DONEGAL. (Area, 1875 sq. mi.)								
1.—DONAGH & C. 146 sq. mi.								
D Carndonagh (Rocksmount)	Cecil Porter, Esq.	5	1 0	50	..	52·12	248	217
Malin Head (C. G. Stn.) *New Site*.	P. Farren, Esq., (M.O.)	8	1 0	83	..	44·37	243	187
2.—LOUGH SWILLY. 273 sq. mi.								
D Rathmullen (Fort Royal)	Col. J. H. Jellett	5	1 0	35	*42·5*	43·42	271	200
D Buncrana Rectory	Rev. R. P. Meredith	5	1 0	50	..	43·18	268	211
3.—SHEEPHAVEN & C. 307 sq. mi.								
D Dunfanaghy (St. Patrick's)	W. T. Arnold, Esq.	..	..	..	*43·0*	44·61	272	221
Mulroy Gardens	Earl of Leitrim	5	0 4	50	..	49·05	..	..
D Rosapenna Hotel	Rosapenna Hotel Co.	5	1 0	30	..	39·98	251	198
4.—GWEEBARRA & C. 341 sq. mi.								
5.—DONEGAL BAY. 322 sq. mi.								
6.—ERNE. 68 sq. mi.								
7.—DROWES & C. 10 sq. mi.								
8.—FOYLE. 396 sq. mi.								
9.—INSULAR. 12 sq. mi.								

§ Gauge over-exposed on moor.

BRITISH RAINFALL

1934

PART IV

HEAVY FALLS ON RAINFALL DAYS*, 1865 to 1934.

By JOHN GLASSPOOLE, M.Sc., Ph.D.

Each volume of *British Rainfall*, since that of 1865, has included a section dealing with the heavy falls on rainfall days recorded during the year. A large amount of information on this subject has therefore been accumulated in the seventy volumes now available. This article considers initially the changes which have occurred in the type of information presented, enumerates some of the statistics set out in certain volumes and includes a tabular statement of the more outstanding falls.

Details of the development of this section from 1865 *to* 1934.

In *British Rainfall*, 1865, the section consisted mainly of a list of the largest falls experienced during the year, entries being confined to the single maximum at any station. As the number of stations with daily entries increased it became necessary to restrict the number of maximum values quoted. In 1876 the only values given were those exceeding 2 inches or 6 per cent. of the year's total. In 1889 the limits were again raised and only falls exceeding 2·50 inches or 8 per cent. were quoted. Subsequently the limit of 8 per cent. was varied slightly until in 1893 the limits now in use were first adopted *viz.*, " no value is quoted unless it reaches or exceeds 2·50 inches, or is 7·5 per cent. of the total for the year."

The general plan of the section as adopted in *British Rainfall*, 1865, has been adhered to but there have been gradual developments. In the earliest volume the statistics were arranged essentially in the form of a chronicle of events with an abstract or statistical summary. It was noted at an early state that the largest amounts were most frequent at stations in the mountainous regions of the west, whilst the largest percentage values generally occurred in the east or midlands. In 1872 the title of the section was changed to " The principal heavy rains of 1872 " and references were made to falls other than the " Maximum daily rainfall during the year " at any station (which was abbreviated to the letter " M "). Then followed a section on the " Maximum Falls in 1872," which was essentially a statistical summary of the M's for the various stations. In 1876 the section on " Heavy daily falls in 1876 " was divided into " chronicle " and " abstract " and this arrangement was continued until 1922, when the abstract or mere statistical summary of the values of " M " was finally abandoned.

In *British Rainfall*, 1886, maps were given with the rainfall values plotted thereon. Isohyetal lines were, however, first shown on maps in this section in 1892, this being a definite development

*The rainfall day covers the 24 hours commencing at 9 a.m. on the date of entry.

in the presentation of the statistics. The first isohyetal map showed the distribution of the rainfall of October 13th to 15th, 1892, over the area draining to York, where severe flooding occurred. Subsequently the mapping of heavy falls of rain became a regular feature of this section, more especially when Dr. H. R. Mill became Director in 1900. With the mapping of rainfall it became possible to determine the volume of water falling as rain. Thus we have the estimate that the heavy rainfall of December 30th, 1900, over England and Wales corresponded to over 4,000,000,000 tons, or enough water to fill all the lakes of the English Lake District four times over. This aspect of the study of heavy rains is of importance in connection with engineering problems concerned with the mitigation of flooding.

Progress in mapping rainfall had been slow, attention being directed primarily to securing accurate records and a sufficiently close network of stations to enable the distribution to be defined with some precision. Actually an estimate of the general rainfall over England and Wales had been made as early as October 6th, 1874 (the value for that day being ·5 inch or just short of that for December 30th, 1900). It was realised at this time, however, that attention must be paid primarily to securing additional records in sparsely inhabited areas, ensuring that the observations were made at the same time each morning and that the capacity of each gauge was sufficient. With increasing knowledge it became evident that larger falls might occur than had previously been recorded. In 1880 attention was directed in this section to the paragraph in *Rules for Rainfall Observers* which stated " it is not desirable to purchase any rain-gauge of which the capacity is less than 4 inches." In 1890 it was pointed out that the rule then stipulated that the gauge should hold 6 inches. The inner can of the standard gauge at the present time holds about 10 inches and if this overflows the rain would be retained in the outer can.

The distribution of the rain over the country has also been considered in relation to the general meteorological conditions prevailing both before, during, and after heavy rain. The track of the accompanying depression was first shown on the rainfall maps in 1904, while in 1922 maps were reproduced showing the pressure distribution and general weather conditions prevailing at some time either before or during the heavy rain. In spite of these developments it was not until 1919 that all heavy falls, not only the maximum at any station, were included in the section. Maximum falls are printed in ordinary type while other falls which qualify for inclusion in the section are printed in italics. Of more recent years it has become the practice to omit certain of the smaller falls, even although they have reached or exceeded the specified limits. Thus on October 10th, 1933, as many as 327 falls qualified for inclusion but of these 148 falls were omitted. The latter reached or exceeded 7·5 per cent. of the annual

total but failed to reach 2·25 inches. In no case have entries of 2·5 inches or more been omitted for this reason from the tables.

The section has therefore developed from a mere statistical record of the one maximum fall at any station to a study of the distribution over the country, and also in time, of the rain during unusually wet days, leading up to a study, both from engineering and meteorological aspects, of individual heavy showers, *i.e.*, the whole of the rain in a continuous fall.

Some Statistical details of heavy falls of rain.

(*a*) *Total number of entries of* 4·00 *inches or more,* 1865–1934. The total number of observing stations has steadily increased from 1,060 in 1865 to 5,400 in 1934, and of these from 50 per cent. initially to 75 per cent. in recent years have given daily observations. There has also been a steady increase in our knowledge of the rainfall experienced in the wetter and more sparsely populated districts, although from time to time daily records maintained in wet localities have had to be terminated. Thus the record on Ben Nevis terminated in 1904 and at Borrowdale (Seathwaite) daily records were last made in 1917. The statistics available in these sections cannot be used therefore to indicate strictly the relative frequency year by year of heavy falls of rain. It is not without interest, however, to consider the total numbers decade by decade. There are set out below :—

1865—1874 ..	26	1905—1914 ..	140
1875—1884 ..	34	1915—1924 ..	206
1885—1894 ..	74	1925—1934 ..	266
1895—1904 ..	84		

Every year in the series has given at least one fall of 4 inches or more, although prior to 1897 as many as 8 years gave only one entry. The most recent years with only two entries were 1925 and 1915. The large number recorded during the last decade is due mainly to the widespread rains of November 3rd, 1931, which gave as many as 114 entries for places as far apart as the Devon-Cornwall peninsula, the English Lake District and Wales. The total number of falls of 4 inches or more recorded during the 70 years was 830 or just short of 12 per year.

It is also worthy of comment that of the 343 falls of 4 inches or more recorded up to the end of 1919 as many as 230, or 67 per cent. occurred during the summer half year, April to September.

(*b*) *Number of heavy falls exceeding certain limits observed during the decade,* 1915–1924.

The table below summarises certain statistics introduced in *British Rainfall,* 1915, and continued until 1924. The statistics in this table are not confined to the maximum fall since all falls reaching or exceeding the limits specified have been included.

	Mean 1915–1924.					
	No. of daily records.	Falls of 7·5 % or more.		Falls of 3·00 in. or more.		Falls of 4·00 in. or more.
		No.	% of total.	No.	% of total.	No.
England & Wales .	3,426	164	4·7	71	2·1	14
Scotland . .	554	15	2·8	33	6·0	6
Ireland . .	244	7	2·8	6	2·5	1
British Isles .	4,224	186	4·4	110	2·6	21

During this decade the mean number of falls a year reaching or exceeding 7·5 per cent. was 186, reaching or exceeding 3 inches 110 and reaching or exceeding 4 inches only 21. The proportion of falls of 7·5 per cent. or more to the total number of stations was highest in England and Wales, while the proportion of falls of 3·00 inches or more was greatest in Scotland. The frequency of occurrence of daily amounts reaching or exceeding specified amounts can be calculated from the table. On the average of all stations one daily reading in 8,000 (including rainless days) reaches or exceeds 7·5 per cent. of the year's total, one in 14,000 is as large as 3·00 inches and one in 75,000 as large as 4·00 inches. This emphasizes the relative infrequency of falls of as much as 3 inches, such an amount being recorded only once in 38 years at the " average station." We can apreciate therefore that when a fall of only 2·34 inches was reported from Baltasound in Unst (Shetland) on July 29th 1932 the report that the oldest inhabitant did not remember so heavy a fall was probably correct. It is not surprising therefore that many observers have never recorded as much as 3 inches and often therefore assert that such amounts are not experienced in their locality.

(*c*) *The maximum fall and the maximum percentage recorded each year,* 1865 *to* 1934.

Each volume of *British Rainfall* since that for 1870 has contained a comparison of the maximum fall in inches and the maximum percentage recorded during the year under review with similar values for earlier years. In 1921 the values are given for each year 1865 to 1921, but more recently only the values back to 1913 have been included. The complete table is reproduced as Table I. It will be seen that in all years at least one station has recorded as much as 4·05 inches or 8·6 per cent. of the annual total on one day. The largest amount is 9·56 inches recorded at Bruton, in Somersetshire, on June 28th, 1917 and the largest percentage value 26·0 recorded at Doncaster on September 17th, 1913. Seathwaite, in the English Lake District, gave the largest daily entry in as many as 17 years. In general the largest percentage values occur in widely different localities each year, although Tongue in Sutherlandshire gave the largest value in both 1868 and 1870. While the wet stations of the English Lake District, Snowdonia, Ben Nevis and the Western Highlands have frequently

given the largest amounts they are entirely absent from the list of the largest percentages

TABLE I.—*Maximum Fall and Maximum Percentage, recorded each year*, 1865 *to* 1934.

Year.	ABSOLUTE HIGHEST RAINFALL.				ABSOLUTE HIGHEST PERCENTAGE.				Year.
	Depth.	Per cent.	Station.	Div.	Per cent.	Depth.	Station.	Div.	
	in.					in.			
1865..	6·41	5·5	Seathwaite	X	9·9	2·62	Fleckney	VII	1865
1866..	6·38	3·6	,, ...	,,	10·0	2·48	Bruton	VI	1866
1867..	4·78	17·8	Hartlip	II	17·8	4·78	Hartlip	II	1867
1868..	5·60	4·8	Camusinas	XV	*8·6*	2·55	Tongue	XIX	1868
1869..	6·70	4·5	Seathwaite	X	10·0	3·40	Tillydesk	XVII	1869
1870..	6·00	17·1	Tongue	XIX	17·1	6·00	Tongue	XIX	1870
1871..	4·24	9·6	Melbury	V	11·5	3·62	Warter	IX	1871
1872..	5·82	3·2	Seathwaite	X	10·0	3·70	Hillington Hall	IV	1872
1873..	4·20	2·9	,, ...	,,	11·8	2·77	Oscott	VI	1873
1874..	5·32	4·4	Bryn Gwynant	XI	11·9	2·50	Welwyn	III	1874
1875..	5·33	9·7	Newport W.W.	,,	13·2	3·95	Letheringsett	IV	1875
1876..	4·50	5·5	Foffanny	XXIII	8·5	3·70	Cragside	X	1876
1877..	4·98	5·3	Skye (Portree)	XVII	9·3	3·09	Wellington	VI	1877
1878..	4·24	8·6	Springfield	XI	11·8	3·90	Haverstock Hill	I	1878
1879..	*4·05*	4·1	Little Langdale	X	12·3	3·80	Cambridge (Merton V.)	III	1879
1880..	4·75	3·9	Seathwaite	,,	11·7	3·34	Marmont Priory Lck..	,,	1880
1881..	5·42	4·7	Sligachan	XVIII	10·6	3·20	Aboyne Castle	XVII	1881
1882..	4·51	3·0	Seathwaite	X	9·1	2·80	Bothalhaugh	X	1882
1883..	5·27	9·0	Glen-na-Smoel	XXI	12·3	4·31	Skegness	VII	1883
1884..	6·78	5·0	Seathwaite	X	13·8	2·66	Diss (Thelveton)	IV	1884
1885..	4·62	3·2	,, ...	,,	9·6	2·62	Beccles (Ellough)	IV	1885
1886..	4·20	9·9	Little Bredy	V	11·5	4·10	Leeds (Methley Park)	IX	1886
1887..	4·93	13·0	Galway (Queen'sCol.)	XXII	13·0	4·93	Galway (Queen's Col.)	XXII	1887
1888..	5·20	5·4	Wythburn Vicarage	X	11·8	3·24	Rothamsted	III	1888
1889..	4·45	16·5	North Ockendon...	IV	16·5	4·45	North Ockendon	IV	1889
1890..	7·29	3·7	Ben Nevis Obsy	XVIII	17·2	3·68	Slough (Langley)	III	1890
1891..	6·14	4·2	Seathwaite	X	14·4	4·00	Montrose (Sunnyside)	XVI	1891
1892..	5·80	4·5	,, ...	,,	15·0	4·27	Flax Bourton	V	1892
1893..	4·96	3·5	,, ...	,,	16·2	4·48	Cranmer Hall	IV	1893
1894..	7·74	5·1	Ben Nevis Obsy	XVIII	11·1	3·56	Sidcup	II	1894
1895..	4·83	16·1	Mellington Hall	XI	16·1	4·83	Mellington Hall	XI	1895
1896..	4·59	3·7	Seathwaite	X	11·1	2·78	Barkby	VII	1896
1897..	8·03	5·6	,, ...	,,	14·1	2·40	Chatteris (Horsew'y L)	III	1897
1898..	6·70	18·1	Angerton Hall	,,	18·1	6·70	Angerton Hall	X	1898
1899..	5·21	5·6	Grange	,,	14·6	3·10	Wallingford	II	1899
1900..	5·40	11·9	Ilkley (Cherry Bank)	IX	13·1	4·50	Gilstead Filters	IX	1900
1901..	5·66	5·7	Dungeon Ghyll.....	X	17·9	4·24	Maidenh'd (The Firs)	II	1901
1902..	5·92	3·8	Ben Nevis Obsy	XVIII	15·5	3·51	Esher Sewage Works	,,	1902
1903..	4·78	2·2	,, ,, ...	,,	12·8	4·41	Dartford (West Hill H.)	,,	1903
1904..	5·62	6·0	Skelwith Bridge....	X	15·8	3·48	Leamington (Bin'd A.)	VI	1904
1905..	5·71	14·0	Glen-na-Smoel	XXI	14·9	3·98	Cofton Vicarage.....	V	1905
1906..	6·15	4·7	Seathwaite	X	11·9	2·50	Cambridge (Her'll H.)	III	1906
1907..	4·86	9·4	Kingsbridge	V	12·5	3·40	Lincoln (St. Botolph's)	VII	1907
1908..	4·80	9·9	Treharris.....	XI	16·0	3·45	Great Glemham.....	VI	1908
1909..	6·46	5·7	Kinlochquoich	XVIII	11·1	3·30	Tidworth House	II	1909
1910..	4·51	3·4	Seathwaite	X	13·0	3·93	Wheatley (Waterst'k)	III	1910
1911..	7·00	4·7	,, ...	,,	14·2	3·25	Haxby (Moorlands) ..	IX	1911
1912..	7·31	21·3	Brundall	IV	22·2	6·67	Norwich (Carrow Ho.)	IV	1912
1913 ..	6·06?	**26·0?**	Doncaster P.S.	IX	**26·0?**	6·06?	Doncaster P. S.	IX	**1913**
1914 ..	6·35	4·1	Pen-y-Gwryd	XI	14·8	3·35	Upminster	IV	**1914**
1915 ..	7·06	19·7	Dalcross	XVIII	19·7	7·06	Dalcross	XVIII	**1915**
1916 ..	8·20	5·7	Kinlochquoich.....	,,	13·1	3·91	Portland Bill.....	V	**1916**
1917 ..	**9·56**	..	Bruton	V	21·8	8·39	Aisholt	,,	**1917**
1918 ..	4·95	9·2	Douglas	XI	12·3	3·36	Woodsetts Grange....	IX	**1918**
1919 ..	4·50	5·9	Corran	XV	11·1	3·57	Ayr Cemetery.....	XV	**1919**
1920 ..	6·81	5·4	Dungeon Ghyll.....	X	15·6	4·69	Elkington Hall	VII	**1920**
1921 ..	6·10	5·2	,, ,, ...	,,	21·3	3·15	Pulham	IV	**1921**
1922 ..	5·14	5·6	Ardgour House.....	XV	16·5	4·70	Doncaster (Carr Ho.).	IX	**1922**
1923 ..	5·57	3·9	Llechwedd Quarry..	XI	11·6	4·16	Rugeley (Brindley Bk.)	VI	**1923**
1924 ..	9·40	19·5	Cannington (Brymore)	V	19·5	**9·40**	Cannington (Brymore)	V	**1924**
1925 ..	4·13	*2·8*	Snowdon (No. 9)....	IX	11·4	*2·35*	Boston (Fishtoft S.)..	VII	**1925**
1926 ..	6·05	9·4	Nantneuadd	XI	10·9	4·57	Pembroke Dock.....	XI	**1926**

The largest entry in each column is shown in heavy type and the smallest in italic type.

TABLE I.—*continued.*

Year.	ABSOLUTE HIGHEST RAINFALL.				ABSOLUTE HIGHEST PERCENTAGE.				Year.
	Depth.	Per cent.	Station.	Div.	Per cent.	Depth.	Station.	Div.	
	in.					in.			
1927 ..	6·00	4·6	Llechwedd Quarry .	xi	10·7	4·00	Wolverh'ton Town H..	vi	1927
1928 ..	7·77	5·3	Oakeley Quarry	,,	12·9	3·26	Marton (Southcroft)..	ix	1928
1929 ..	8·31	7·2	Rhondda(L.Wen Res)	,,	19·1	4·01	Rumburgh Vicarage..	iv	1929
1930 ..	5·70	11·0	Castleton	ix	11·0	5·70	Castleton	ix	1930
1931 ..	7·25	9·2	Blaenau-hydfer.....	xi	18·9	6·10	Boston (Black Sluice).	vii	1931
1932 ..	5·33	11·5	Barnoldswick	ix	17·8	5·14	Cranwell Aerodrome	,,	1932
1933 ..	6·50	10·0	L. Carron (Dun'dale)	xviii	18·9	5·16	Fleet (Home Wood)..	ii	1933
1934..	4·70	14·7	W. Wickham (W.W.)	ii	14·7	4·70	W. Wickham (W.W.)	,,	1934

The largest entry in each column is shown in heavy type and the smallest in italic type.

(*d*) *Mean of all the maximum falls,* 1865–1914. Each volume of *British Rainfall* from 1867 to 1914 contained a statement of the mean of all the maximum falls recorded during the year, while a statement of the values for each of the fifty years 1865 to 1914 is given in *British Rainfall,* 1914, p. 131. The mean of all the maximum daily falls reported each year from over 2,000 stations during this period was 1·45 inches, the mean of the percentage values being 4·4 per cent. of the annual total. The object of the table was to study the variation in the mean values from year to year. It is apparent that the variation is partially independent of the total rainfall over the country year by year. The variation in the mean of the maximum daily entries is from 1·83 inches in 1875, a moderately wet year, to 1·14 inches in 1887, the record dry year. The variation in the mean percentage value is from 5·7 in 1901, a moderately dry year, to 3·4 in 1872, the record wet year. The table shows that there is not a very wide range in the values from year to year, and that the fluctuations in the total rainfall over the country are not closely related to the variations in the maximum values. The small percentage value in 1872 is accounted for by the fact that the maximum falls qualifying for inclusion in this section were predominantly from the usually wet stations which there gave only small percentage values.

It should be emphasized that the maximum daily entry for the year may occur in one part of the country on a day which is rainless elsewhere. In fact in most years very many days are involved in giving the maximum daily entries all over the country. On the other hand as many as 560 out of 1,801 stations gave the maximum daily entry for the year on one day, *viz.*, September 10th, 1885. So large a number of stations recording the maximum daily entry on one day had not been approached in previous years. July 23rd, 1903, gave the maximum for the year at as many as 300 stations.

(*e*) *The number of maximum falls reaching or exceeding* 2·00 *inches and* 3·00 *inches,* 1882–1914.

In *British Rainfall,* 1889, a table was introduced showing the number of maximum falls reaching or exceeding 2·00 inches and also 3·00 inches. The publication of statistics along these lines was

continued up to 1914 and a statement of the values for each year back to 1882 is given in *British Rainfall*, 1914, p. 134. For the thirty-two years the mean number of stations reporting daily values each year was 2,699 and the mean number of maximum falls at these stations reaching or exceeding 2·00 inches was 313, and exceeding 3·00 inches, 45. On the average of all stations during this period one maximum daily reading in 3,000 reached 2·00 inches and one in 22,000 reached 3·00 inches. The " average observer " has therefore recorded for 9 years before recording two inches and 60 years before recording three inches or more. These statistics are confined to the one maximum fall for the year at any station and are not therefore strictly comparable with the values given in sub-section (*b*).

Separate statistics for England and Wales, Scotland and Ireland were first published in 1907 and the complete statement for the years 1905 to 1914 is set out in *British Rainfall*, 1914, p. 133. This table shows therefore the variations year by year in the various countries and also that in general heavy falls are most frequent in Scotland.

(*f*) *Mean of the* 16 *highest maximum falls and the* 16 *highest percentages recorded during the year.* Each volume of *British Rainfall* from 1866 to 1910 gave not only lists of the 16 stations reporting the largest falls and the largest percentages, but also details of the mean values for comparative purposes. The mean values for each year 1865 to 1910 are set out in *British Rainfall*, 1910, pp. 137–138. In view of the fact that these statistics were not strictly comparable, owing to the addition of stations in wet areas and the unavoidable cessation of records from time to time, this comparison was subsequently discontinued. This question was discussed in detail in *British Rainfall*, 1911, pp. 167–169.

List of heavy falls on rain-days, of 4 *inches or more.*

A table was given in *British Rainfall*, 1910, pp. 31–36 giving details of all falls reaching or exceeding 4 inches. The list of stations was arranged county by county in the order usually adopted in that volume, the object being to give details as to the greatest amounts of rain which have been recorded on one day in each county. This table has been brought up to date and is reproduced in this article. The general modifications adopted in the early table have been continued. In Cumberland and Westmorland and in the case of the falls of August 26th, 1912 and June 28th, 1917, only falls reaching 5·00 inches are included, and in Glamorgan, Brecon, Merioneth, Carnarvon, Argyll and Inverness only falls reaching 4·50 inches. In counties where no fall of 4 inches has been recorded, the largest fall is given where that reached 3 inches. In the case of counties with no entry, the largest fall on record is less than 3 inches. The list serves as an index of the most striking falls experienced in each county.

TABLE II.—*List of Heavy Falls on Rain-days of 4 inches or more.*

(In Cumberland and Westmorland and in the case of the falls of August 26th, 1912 and June 28th, 1917 only falls reaching 5·00 inches are included and in Glamorgan, Brecon, Merioneth, Carnarvon, Argyll and Inverness only falls reaching 4·50 inches. In counties where no fall of 4 inches has been recorded, the largest fall is given where that reached 3 inches. In the case of counties with no entry, the largest fall on record is less than 3 inches. The rainfall day covers the 24 hours from 9 a.m. on the day of entry).

Div.	County.	Station.	Date.	Amount.
				in.
		ENGLAND		
I	London	Kensington (Cam Ho.)	June 16, 1917	4·65
,,	,,	Kensington (Holland Ho.)	June 16, 1917	4·00
II	Surrey	Farnham (Crooksbury Ridges)	July 10, 1927	4·10
,,	,,	Wisley (R.H.S. Gardens)	July 22, 1924	4·07
,,	Kent	Hartlip	July 26, 1867	4·78
,,	,,	W. Wickham (Woodland Way)	July 22, 1934	4·70
,,	,,	Dartford (West Hill House)	July 23, 1903	4·41
,,	,,	Wilmington (Kent W.W.)	July 23, 1903	4·03
,,	Sussex	Rottingdean (Hillside)	July 9, 1922	4·55
,,	,,	Liphook (Milland House)	July 31, 1872	4·11
,,	,,	Newhaven (Poverty Bottom)	July 9, 1922	4·04
,,	,,	Falmer (Brighton W.W.)	July 9, 1922	4·02
,,	Hampshire	Fleet (Home Wood)	Sept. 26, 1933	5·16
,,	,,	West Tytherley (Buckholt)	June 28, 1917	4·94
,,	,,	Stockbridge (Bossington Ho.)	June 28, 1917	4·38
,,	,,	Fleet (Crookham)	Sept. 26, 1933	4·25
,,	,,	Fleet (Winchfield)	Sept. 26, 1933	4·02
,,	Berkshire	Maidenhead (Castle Hill)	July 12, 1901	4·24
III	Middlesex	Hillingdon	July 17, 1890	4·00
,,	Hertford	Rickmansworth (Moor Park)	July 17, 1890	4·19
,,	Buckingham	Wooburn (The Chestnuts)	July 12, 1901	4·10
,,	Oxford	Churchill School	June 7, 1910	4·25
,,	Northampton	Gretton (Gretton House)	Aug. 6, 1922	3·81
,,	Huntingdon	Huntingdon	Aug. 2, 1879	3·75
,,	Bedford	Shefford (Clifton Bury)	May 20, 1924	3·81
,,	Cambridge	Grantchester	Aug. 2, 1879	3·92
IV	Essex	Romford (North Ockendon)	Aug. 1, 1888	4·56
,,	,,	Upminster Hall	Aug. 1, 1888	4·50
,,	,,	Romford (North Ockendon)	Sept. 2, 1889	4·45
,,	,,	Buckhurst Hill (Ardmore)	July 23, 1903	4·35
,,	,,	Upminster Hall	Sept. 2, 1889	4·32
,,	,,	Buckhurst Hill Ho.	July 23, 1903	4·25
,,	,,	Buckhurst Hill Res.	July 23, 1903	4·16
,,	Suffolk	Stradbroke Vicarage	Aug. 26, 1912	5·00
,,	,,	Rumburgh Vicarage	July 3, 1929	4·01
,,	Norfolk	Brundall (Blofeld Rd.)	Aug. 26, 1912	7·31
,,	,,	Sprowston (Council School)	Aug. 26, 1912	7·20
,,	,,	Old Catton	Aug. 26, 1912	6·90
,,	,,	Sprowston (Oak Lodge)	Aug. 26, 1912	6·90
,,	,,	Norwich (Carrow House)	Aug. 26, 1912	6·67
,,	,,	Norwich (Heigham Cemetery)	Aug. 26, 1912	6·59
,,	,,	Norwich (Ipswich Road)	Aug. 26, 1912	6·49
,,	,,	Gunton Park	Aug. 26, 1912	6·46
,,	,,	Sprowston Hall	Aug. 26, 1912	6·40
,,	,,	Worstead (Westwick Gns.)	Aug. 26, 1912	6·38
,,	,,	Brooke School	Aug. 26, 1912	6·31
,,	,,	Norwich (Eaton)	Aug. 26, 1912	6·31
,,	,,	Worstead (The Grange)	Aug. 26, 1912	6·31
,,	,,	Coltishall	Aug. 26, 1912	6·18
,,	,,	Dunston Hall	Aug. 26, 1912	6·13
,,	,,	Keswick (Old Hall)	Aug. 26, 1912	6·06
,,	,,	Moulton	Aug. 26, 1912	6·01
,,	,,	Swainsthorpe (The Rookery)	Aug. 26, 1912	5·90
,,	,,	Baconsthorpe Rectory	Aug. 26, 1912	5·76
,,	,,	Cromer (The Warren)	Aug. 26, 1912	5·76
,,	,,	Drayton	Aug. 26, 1912	5·70
,,	,,	Honingham Hall	Aug. 26, 1912	5·62
,,	,,	Hethersett	Aug. 26, 1912	5·58
,,	,,	Worstead (Lyngate Cottage)	Aug. 26, 1912	5·55
,,	,,	Aylsham (Rippon Hall)	Aug. 26, 1912	5·54
,,	,,	Aylsham (Millgate)	Aug. 26, 1912	5·46
,,	,,	Saxlingham Nethergate	Aug. 26, 1912	5·45
,,	,,	Mundesley-on-Sea	Aug. 26, 1912	5·42

TABLE II.—*continued.*

Div.	County.	Station.	Date.	Amount.
				in.
		ENGLAND—*continued*		
IV	Norfolk (*cont.*)..	Wymondham	Aug. 26, 1912	5·33
,,	,, ...	Bylaugh Park Gardens	Aug. 26, 1912	5·30
,,	,, ...	Cawston Rectory	Aug. 26, 1912	5·30
,,	,, ...	Long Stratton (Fritton Rectory)	Aug. 26, 1912	5·21
,,	,, ...	Yarmouth (Ormesby St. Michaels)	Aug. 26, 1912	5·17
,,	,, ...	Worstead (The Rookery, Dilham)	Aug. 26, 1912	5·16
,,	,, ...	North Walsham (Beech Grove)	Aug. 26, 1912	5·16
,,	,, ...	Loddon (Langley Park)	Aug. 26, 1912	5·05
,,	,, ...	Spooner Row (Wattlefield Hall)	Aug. 26, 1912	5·04
,,	,, ...	Falkenham (Cranmer Hall)	July 11, 1893	4·48
V	Wiltshire.....	Stourhead Gardens	June 28, 1917	6·50
,,	,, ...	Stourhead School	June 28, 1917	6·50
,,	,, ...	Tisbury (Pythouse)	June 28, 1917	6·01
,,	,, ...	Tisbury (The Academy)	June 28, 1917	5·87
,,	,, ...	Fonthill House	June 28, 1917	5·74
,,	,, ...	Mere (Charnage)	June 28, 1917	5·69
,,	,, ...	Bourton	June 28, 1917	5·55
,,	,, ...	Fovant	June 28, 1917	5·05
,,	,, ...	Steeple Langford (Woodstock)	Aug. 4, 1931	4·49
,,	,, ...	Donhead St. Mary (Charlton Ho.)	Aug. 29, 1916	4·38
,,	,, ...	Chippenham (Monkton Pk.)	Sept. 26, 1933	4·31
,,	Dorset.....	Melbury	Aug. 14, 1871	4·24
,,	,, ...	Little Bredy	Dec. 26, 1886	4·20
,,	Devon.....	Chagford (Metherall)	Nov. 3, 1931	5·49
,,	,, ...	Princetown (H.M. Prison)	Nov. 3, 1931	5·39
,,	,, ...	Tiverton (Broomhills)	May 25, 1890	5·20
,,	,, ...	Postbridge (Warren House Inn)	Nov. 3, 1931	5·17
,,	,, ...	Chagford (Fernworthy)	Nov. 3, 1931	5·11
,,	,, ...	Princetown (H.M. Prison)	June 30, 1932	5·00
,,	,, ...	Kingsbridge	Oct. 16, 1907	4·86
,,	,, ...	Tiverton (St. Peter's St.)	May 25, 1890	4·85
,,	,, ...	Holne	Nov. 3, 1931	4·52
,,	,, ...	Eggerford	July 6, 1872	4·40
,,	,, ...	Princetown (H.M. Prison)	Oct. 5, 1929	4·40
,,	,, ...	Chagford (Thornworthy)	Nov. 3, 1931	4·40
,,	,, ...	Chagford (Fernworthy)	Oct. 5, 1929	4·39
,,	,, ...	Postbridge (Warren Inn)	Nov. 19, 1929	4·39
,,	,, ...	Okehampton	July 6, 1872	4·38
,,	,, ...	Chagford (Metherall)	Oct. 5, 1929	4·36
,,	,, ...	Chagford (Thornworthy)	Oct. 5, 1929	4·36
,,	,, ...	Jacobstowe (Hatherleigh)	July 6, 1872	4·35
,,	,, ...	Parkham (Melbury Res.)	Nov. 3, 1931	4·30
,,	,, ...	Torquay (Kilmorie)	Aug. 29, 1916	4·25
,,	,, ...	Postbridge (Archerton)	Nov. 3, 1931	4·25
,,	,, ...	Christow (Laployd)	Nov. 3, 1931	4·24
,,	,, ...	Princetown (H.M. Prison)	Aug. 3, 1929	4·22
,,	,, ...	Postbridge (Archerton)	Oct. 20, 1932	4·21
,,	,, ...	Princetown (H.M. Prison)	Jan. 9, 1932	4·20
,,	,, ...	Filleigh (Castle Hill)	July 6, 1872	4·15
,,	,, ...	Princetown	July 14, 1875	4·15
,,	,, ...	Holne (Church Park Cott.)	Jan. 9, 1932	4·15
,,	,, ...	Moretonhampstead (Stinhall)	Nov. 3, 1931	4·12
,,	,, ...	Moretonhampstead (Bullaton)	Nov. 3, 1931	4·11
,,	,, ...	Dartmoor (Swincombe)	Oct. 5, 1929	4·03
,,	Cornwall.....	Liskeard (Penmilder)	Oct. 5, 1929	4·53
,,	Somerset.....	Bruton (Sexey's Sch.)	June 28, 1917	9·56
,,	,, ...	Cannington (Brymore Ho.)	Aug. 18, 1924	9·40
,,	,, ...	Bruton (King's School)	June 28, 1917	8·48
,,	,, ...	Aisholt (Timbercombe)	June 28, 1917	8·39
,,	,, ...	Bruton (Pitcombe Vic.)	June 28, 1917	7·90
,,	,, ...	Cothelstone House	June 28, 1917	7·05
,,	,, ...	Castle Cary (Alford Ho.)	June 28, 1917	6·95
,,	,, ...	Butleigh Gardens	June 28, 1917	6·75
,,	,, ...	Bicknoller (Willett)	June 28, 1917	6·14
,,	,, ...	Butleigh Corvile	June 28, 1917	6·10
,,	,, ...	Wincanton (Roundhill Gn.)	June 28, 1917	6·02
,,	,, ...	Ashcott School	June 28, 1917	6·00
,,	,, ...	Street (Leigholt Res.)	June 28, 1917	5·85
,,	,, ...	Butleigh Court	June 28, 1917	5·76

TABLE II.—*continued.*

Div.	County.	Station.	Date.	Amount.
				in.
		ENGLAND—*continued*		
V	Somerset (*cont.*).	Street (Overleigh Ho.)	June 28, 1917	5·61
,,	,, ...	,, (Council Yard)	June 28, 1917	5·60
,,	,, ...	Cannington (Ashford Ho.)	Aug. 18, 1924	5·60
,,	,, ...	Cutcombe (Wheddon Cross)	June 28, 1917	5·43
,,	,, ...	Winsford School	June 28, 1917	5·35
,,	,, ...	Street (Millfield)	June 28, 1917	5·13
,,	,, ...	Cannington (Ashford)	Aug. 18, 1924	4·50
,,	,, ...	Cheddar (Pumping Station)	Aug. 6, 1930	4·35
,,	,, ...	Flax Bourton (Tyntesfield)	July 16, 1892	4·27
,,	,, ...	Winscombe (The Down)	Aug. 6, 1930	4·20
,,	,, ...	Stogursey (Fairfield Ho.)	June 28, 1917	4·03
VI	Gloucester.....	Tibberton Court	July 1, 1914	3·91
,,	Hereford	Longtown	July 14, 1875	3·88
,,	Shropshire	Ludlow (Springfield)	May 31, 1924	4·34
,,	,, ...	Myddle (Marton Hall)	May 31, 1924	4·10
,,	,, ...	Ellesmere	May 31, 1924	4·10
,,	Stafford.....	Rugeley (Brindley Bank)	July 14, 1923	4·16
,,	,, ...	Penkridge	June 28, 1892	4·04
,,	,, ...	Wolverhampton (Town Hall)	July 11, 1927	4·00
,,	Worcester.....	Bewdley (C.E. School)	May 31, 1924	3·99
,,	Warwick.....	Coventry	Dec. 30, 1900	3·87
VII	Leicester.....	Fleckney	Aug. 23, 1865	4·40
,,	,, ...	Croxton Kerrial School	Aug. 6, 1922	4·18
,,	,, ...	Market Harborough	June 18, 1872	4·00
,,	Rutland	Burley-on-the-Hill	Aug. 3, 1878	3·03
,,	Lincoln	Boston (Black Sluice)	Aug. 8, 1931	6·10
,,	,, ...	Boston (Grand Sluice)	Aug. 8, 1931	5·72
,,	,, ...	Cranwell Aerodrome	July 11, 1932	5·14
,,	,, ...	Boston (Bargate End)	Aug. 8, 1931	4·98
,,	,, ...	Elkington Hall	May 29, 1920	4·69
,,	,, ...	Skegness	Sept. 29, 1883	4·31
,,	,, ...	Holywell Hall	Aug. 6, 1922	4·28
,,	,, ...	Louth (Hallington)	May 29, 1920	4·00
,,	Nottingham	Scrooby	Aug. 7, 1922	4·26
,,	,, ...	Bawtry Hall Gardens	Aug. 7, 1922	4·26
,,	Derby.....	Glossop W.W. (Swineshaw)	June 18, 1930	4·10
,,	,, ...	Broadbottom (Harewood Lo)	July 11, 1932	4·74
VIII	Cheshire	Macclesfield	June 18, 1872	4·27
,,	,, ...	Stalybridge (Brushes Filter H.)	July 11, 1932	4·09
,,	Lancashire	Skelwith Fold	Nov. 12, 1897	6·03
,,	,, ...	Skelwith Fold	Nov. 3, 1931	5·30
,,	,, ...	Little Langdale	Aug. 25, 1881	4·85
,,	,, ...	Duddon Valley (Seathwaite Sch.)	Nov. 4, 1926	4·43
,,	,, ...	Skelwith Fold	Oct. 29, 1911	4·40
,,	,, ...	Coniston	Sept. 2, 1875	4·35
,,	,, ...	Coniston (Holywath)	Aug. 8, 1914	4·29
,,	,, ...	Esthwaite Lodge	Nov. 12, 1897	4·22
,,	,, ...	Duddon Valley (Seathwaite Vic.)	Nov. 12, 1897	4·07
,,	,, ...	Little Langdale	Oct. 2, 1879	4·05
,,	,, ...	Skelwith Fold	Nov. 8, 1904	4·00
IX	Yorks., W.R. ..	Doncaster (Pumping Stn.)	Sept. 17, 1913	6·06?
,,	,, ,, ..	Brodsworth	Sept. 17, 1913	5·50
,,	,, ,, ..	Doncaster (Wyndthorpe)	Sept. 17, 1913	5·50
,,	,, ,, ..	Ilkley (Cherry Bank)	July 12, 1900	5·40
,,	,, ,, ..	Barnoldswick (Rainhall Rd.)	July 11, 1932	5·33
,,	,, ,, ..	Doncaster (Avenue Rd.)	Sept. 17, 1913	5·26
,,	,, ,, ..	Ingleton (Kingsdale Head)	Oct. 29, 1911	4·87
,,	,, ,, ..	Golcar (Bank Field)	July 24, 1904	4·85
,,	,, ,, ..	Doncaster (Carr Ho. Hosp.)	Aug. 7, 1922	4·70
,,	,, ,, ..	Nidderdale (Low Houses)	Oct. 14, 1892	4·63
,,	,, ,, ..	Nidderdale (West Houses)	Oct. 14, 1892	4·50
,,	,, ,, ..	Slaidburn (Whitendale)	July 2, 1888	4·57
,,	,, ,, ..	Slaidburn (Brennand)	July 2, 1888	4·50
,,	,, ,, ..	Bingley (Gilstead Filters)	July 12, 1900	4·50
,,	,, ,, ..	Nidderdale (High Riggs)	Oct. 14, 1892	4·45
,,	,, ,, ..	Doncaster (Carr Ho. Hospl.)	Sept. 17, 1913	4·27
,,	,, ,, ..	Ilkley (Eaton Road)	July 12, 1900	4·26
,,	,, ,, ..	Greenfield (Chew Mount)	Sept. 4, 1931	4·23
,,	,, ,, ..	Ingleton (Kingsdale Head)	Jan. 26, 1903	4·22

TABLE II.—*continued.*

Div.	County.	Station.	Date.	Amount.
				in.
		ENGLAND—*continued*		
IX	Yorks, W.R. (*cont.*)	Oldham (Strinesdale)	July 11, 1927	4·21
,,	,, ,, ..	Wetherby (Stockeld Park.)	July 25, 1930	4·20
,,	,, ,, ..	Conisborough (Frisby Res.)	Aug. 7, 1922	4·16
,,	,, ,, ..	Bingley (Sunnydale)	July 12, 1900	4·12
,,	,, ,, ..	Leeds (Methley Pk.)	July 25, 1886	4·10
,,	,, ,, ..	Masham Moor (W. Somerside)	Oct. 14, 1892	4·07
,,	,, ,, ..	Upper Barden Res.	June 3, 1908	4·06
,,	,, ,, ..	Masham Moor (High Sour Mire)	Oct. 14, 1892	4·03
,,	,, ,, ..	Ramsgill	Oct. 14, 1892	4·03
,,	,, ,, ..	Ilkley	July 12, 1900	4·01
,,	,, ,, ..	Bradford (Chellow Dean)	July 12, 1900	4·00
,,	Yorks. E.R.	Warter	Sept. 6, 1871	3·62
,,	Yorks. N.R.	Castleton	July 22, 1930	5·70
,,	,, ,, ...	Danby (School House)	July 22, 1930	5·20
,,	,, ,, ...	Danby Lodge	July 22, 1930	5·20
,,	,, ,, ...	Castleton	Sept. 4, 1931	5·01
,,	,, ,, ...	Kildale Hall	Sept. 4, 1931	4·97
,,	,, ,, ...	Kildale Hall	July 22, 1930	4·55
,,	,, ,, ...	Guisborough (Lockwood Res.)	July 22, 1930	4·46
,,	,, ,, ...	Danby (School House)	Sept. 4, 1931	4·43
,,	,, ,, ...	Danby Lodge	Sept. 4, 1931	4·43
,,	,, ,, ...	Guisborough (Lockwood Res.)	Sept. 4, 1931	4·38
,,	,, ,, ...	Barningham Park	Aug. 20, 1928	4·31
,,	,, ,, ...	Ingleby Manor	Sept. 4, 1931	4·23
,,	,, ,, ...	Hawes Junction	Aug. 7, 1889	4·16
,,	,, ,, ...	Ingleby Manor	July 22, 1930	4·15
,,	,, ,, ...	Egton Bridge (Bridgeholme)	July 22, 1930	4·07
X	Durham	Wolsingham	Nov. 12, 1901	4·21
,,	Northumberland	Morpeth (Angerton Hall)	Sept. 7, 1898	6·70
,,	Cumberland	Borrowdale (Seathwaite)	Nov. 12, 1897	8·03
,,	,, ...	Borrowdale (Seathwaite)	Oct. 29, 1911	7·00
,,	,, ...	Rosthwaite	Nov. 12, 1897	6·94
,,	,, ...	Borrowdale (Seathwaite)	Sept. 30, 1890	6·79
,,	,, ...	Borrowdale (Seathwaite)	May 8, 1884	6·78
,,	,, ...	Borrowdale (Seathwaite)	Nov. 13, 1869	6·70
,,	,, ...	Borrowdale (Seathwaite)	Dec. 4, 1864	6·47
,,	,, ...	Borrowdale (Seathwaite)	May 30, 1865	6·41
,,	,, ...	Borrowdale (Seathwaite)	Nov. 16, 1866	6·38
,,	,, ...	Borrowdale (Seathwaite)	Jan. 28, 1906	6·15
,,	,, ...	Borrowdale (Seathwaite)	Aug. 24, 1891	6·14
,,	,, ...	Buttermere (Hassness)	Dec. 26, 1924	6·05
,,	,, ...	Borrowdale (Grange)	Nov. 12, 1897	5·93
,,	,, ...	Borrowdale (Seathwaite)	Jan. 17, 1872	5·82
,,	,, ...	Borrowdale (Seathwaite)	Sept. 18, 1892	5·80
,,	,, ...	Borrowdale (Seathwaite)	Dec. 13, 1912	5·70
,,	,, ...	Watendlath Farm	Jan. 31, 1933	5·50
,,	,, ...	Buttermere (Hassness)	Oct. 3, 1918	5·35
,,	,, ...	Rosthwaite	Sept. 30, 1890	5·33
,,	,, ...	Borrowdale (Seathwaite)	Dec. 14, 1900	5·32
,,	,, ...	Wythburn Vicarage	Aug. 24, 1891	5·28
,,	,, ...	Borrowdale (The Moraine)	Nov. 3, 1931	5·24
,,	,, ...	Borrowdale (Grange)	Jan. 18, 1899	5·21
,,	,, ...	Wythburn Vicarage	Oct. 27, 1888	5·20
,,	,, ...	Borrowdale (Seathwaite)	Nov. 1, 1898	5·20
,,	,, ...	Borrowdale (The Moraine)	Dec. 16, 1932	5·18
,,	,, ...	Borrowdale (Seathwaite)	Oct. 6, 1874	5·14
,,	,, ...	Rosthwaite	Nov. 1, 1898	5·12
,,	,, ...	Borrowdale (Grange)	Feb. 15, 1900	5·06
,,	,, ...	Borrowdale (Grange)	Oct. 29, 1911	5·06
,,	,, ...	Keswick (Lingholm Gardens)	Nov. 3, 1931	5·05
,,	Westmorland ...	Dungeon Ghyll	Feb. 9, 1920	6·81
,,	,, ...	Skelwith Bridge	Nov. 12, 1897	6·35
,,	,, ...	Dungeon Ghyll	Jan. 8, 1921	6·10
,,	,, ...	Dungeon Ghyll	Nov. 12, 1897	5·90
,,	,, ...	Dungeon Ghyll	Nov. 19, 1901	5·66
,,	,, ...	Skelwith Bridge	Nov. 8, 1904	5·62
,,	,, ...	Elterwater Hall	Nov. 8, 1904	5·58
,,	,, ...	Langdale Brigg	Nov. 13, 1869	5·55
,,	,, ...	Rydal (The Stepping Stones)	Nov. 3, 1931	5·41

TABLE II.—*continued.*

Div.	County.	Station.	Date.	Amount.
				in.
		ENGLAND—*continued*		
X	Westmorland (*con.*)	Grasmere (The Wray)	Nov. 3, 1931	5·28
,,	,, ...	Elterwater Hall	Nov. 19, 1901	5·27
,,	,, ...	Patterdale (Greenside Mine)	Nov. 3, 1931	5·26
,,	,, ...	Rydal (The Hall)	Nov. 3, 1931	5·23
,,	,, ...	Grasmere (The Wray)	Dec. 13, 1912	5·14
,,	,, ...	Grasmere (The Wray)	Feb. 9, 1920	5·12
,,	,, ...	Dungeon Ghyll	Dec. 28, 1916	5·10
,,	,, ...	Patterdale (Greenside Mine)	Dec. 26, 1924	5·00
		WALES AND MONMOUTH		
XI	Monmouth	Abertillery (The Park)	Nov. 3, 1931	5·80
,,	,, ...	Blaenavon (Estate Office)	Nov. 3, 1931	5·46
,,	,, ...	Newport, W. W. (Tnys-y-bro)	July 14, 1875	5·33
,,	,, ...	Tintern Abbey	July 14, 1875	5·31
,,	,, ...	Newport (Springfield)	July 14, 1875	5·30
,,	,, ...	Ebbw Vale (Iron Works)	Nov. 3, 1931	5·22
,,	,, ...	Tredegar (Laboratory)	Nov. 3, 1931	4·68
,,	,, ...	Caerleon (Lansoar)	July 14, 1875	4·64
,,	,, ...	Blackwood	Nov. 3, 1931	4·40
,,	,, ...	Abergavenny (Tŷ clyd)	Nov. 3, 1931	4·30
,,	,, ...	Abergavenny (Plâs Derwen)	Oct. 5, 1929	4·29
,,	,, ...	Newport W.W. (Pant-yr-eos)	May 27, 1931	4·29
,,	,, ...	Newport (Springfield)	Aug. 15, 1878	4·24
,,	,, ...	Abergavenny (Richmond Rd.)	May 27, 1931	4·24
,,	,, ...	Abergavenny (Larchfield)	May 27, 1931	4·24
,,	,, ...	Goytre (Goytre Hall)	Nov. 3, 1931	4·16
,,	,, ...	Abersychan (Glansychan)	May 27, 1931	4·12
,,	,, ...	Abergavenny (Plâs Derwen)	May 27, 1931	4·08
,,	,, ...	Abergavenny (Plâs Derwen)	Nov. 3, 1931	4·04
,,	,, ...	Goytre (Goytre Hall)	Oct. 5, 1929	4·00
,,	Glamorgan	Rhondda (Lluest Wen Res.)	Nov. 11, 1929	8·31
,,	,, ...	Rhondda (Lluest Wen Res.)	Nov. 3, 1931	6·38
,,	,, ...	Rhondda (Lluest Wen Filter)	Nov. 11, 1929	6·20
,,	,, ...	Rhymney Bridge Reservoir	Nov. 3, 1931	5·99
,,	,, ...	Rhondda (Castel Nos Res.)	Nov. 3, 1931	5·68
,,	,, ...	Rhondda W.W. (Llyn Fawr Res.)	Nov. 3, 1931	5·50
,,	,, ...	Mountain Ash (Darranlas Res.)	Nov. 3, 1931	5·46
,,	,, ...	Rhondda W.W. (Llyn Fawr Res.)	Apl. 26, 1913	5·37
,,	,, ...	Treherbert (Tynywaun)	Nov. 3, 1931	5·33
,,	,, ...	Merthyr Tydfil (Penybryn Filters)	Nov. 3, 1931	5·26
,,	,, ...	Treherbert (Tynywaun)	Nov. 11, 1929	5·25
,,	,, ...	Mountain Ash (Maesydderwyn)	Nov. 3, 1931	5·02
,,	,, ...	Pontypridd (Treorchy)	Aug. 6, 1875	4·99
,,	,, ...	Rhondda W.W. (Llyn Fawr Res.)	Nov. 11, 1929	4·98
,,	,, ...	Rhondda (Lluest Wen Res.)	Jan. 5, 1932	4·94
,,	,, ...	Glyncorrwg Colliery	Nov. 11, 1929	4·93
,,	,, ...	Cardiff (Lisvane)	July 14, 1875	4·84
,,	,, ...	Cardiff (Pentyrch)	July 14, 1875	4·80
,,	,, ...	Treharris	Oct. 19, 1908	4·80
,,	,, ...	Cardiff (Ely)	July 14, 1875	4·75
,,	,, ...	Rhondda (Castell Nos Res.)	Nov. 11, 1929	4·72
,,	,, ...	Aberdare (Mardy)	July 6, 1872	4·51
,,	,, ...	Penarth (Council Offices)	May 27, 1931	4·50
,,	Carmarthen	Llynyfan Fach (Nant Coch)	Nov. 3, 1931	6·52
,,	,, ...	Llynyfan Fach (Afon Lychlwch)	Mar. 15, 1921	5·50
,,	,, ...	Llynyfan Fach (Troedyfoel)	Nov. 3, 1931	5·35
,,	,, ...	Llynyfan Fach (Waen Sychlwch)	Mar. 15, 1921	4·95
,,	,, ...	Llynyfan Fach (Nant Coch)	Mar. 15, 1921	4·45
,,	Pembroke	Pembroke Dock (Admiralty Res.)	July 18, 1926	4·57
,,	Cardigan	Abergwesyn (Nantneuadd)	July 18, 1926	6·05
,,	,, ...	Abergwesyn (Nantneuadd)	Nov. 3, 1931	4·23
,,	Brecon	Trecastle (Blaenau-hydfer)	Nov. 3, 1931	7·25
,,	,, ...	Cardiff W.W. (Storey Arms Field)	Nov. 3, 1931	6·40
,,	,, ...	Swansea W.W. (Bwlch)	Dec. 10, 1909	6·14
,,	,, ...	Taf Fechan (Pentwyn Res.)	Nov. 3, 1931	5·86
,,	,, ...	Llanwrtyd Wells (Brynonen)	July 18, 1926	5·74
,,	,, ...	Ystradfellte Reservoir	Nov. 3, 1931	5·53
,,	,, ...	Aberdare (Nanthir Res.)	Nov. 3, 1931	5·48
,,	,, ...	Cardiff W.W. (Pontardaf)	Nov. 3, 1931	5·48

TABLE II.—*continued.*

Div.	County.	Station.	Date.	Amount.
				in.
		WALES AND MONMOUTH—*continued.*		
XI	Brecon (*cont.*)..	Cardiff W.W. (Llwynon Res.)	Nov. 3, 1931	5·37
,,	,, ...	Taf Fechan (Pontsticill)	Nov. 3, 1931	5·25
,,	,, ...	Cardiff W.W. (Cantref)	Nov. 3, 1931	5·10
,,	,, ...	Taf Fechan (Neuadd Res.), 11A	Nov. 3, 1931	5·10
,,	,, ...	Taf Fechan (Neuadd Res.), 1A	Nov. 3, 1931	5·05
,,	,, ...	Taf Fechan (Neuadd Res.), 4	Nov. 3, 1931	5·03
,,	,, ...	Cardiff W.W. (Beacons Res.)	Nov. 3, 1931	4·98
,,	,, ...	Brecon (Tairbull School)	Nov. 3, 1931	4·95
,,	,, ...	Swansea W.W. (Bwlch)	July 9, 1908	4·75
,,	,, ...	Talybont (Ffynonwen)	Nov. 3, 1931	4·73
,,	,, ...	Taf Fechan (Neuadd Res.), 11	Dec. 22, 1909	4·66
,,	,, ...	Talybont (Aberclydach)	Nov. 3, 1931	4·60
,,	,, ...	Brecon (Ffrwdgrech)	Nov. 3, 1931	4·56
,,	Radnor	Birmingham W.W. (Abergwyngy)	Jan. 26, 1901	4·60
,,	Montgomery....	Churchstoke (Mellington Hall)	June 26, 1895	4·83
,,	Flint	Hanmer (Gredington)	May 31, 1924	5·31
,,	Denbigh	Ruabon	June 26, 1895	3·95
,,	Merioneth	Blaenau Festiniog (Oakeley Q.)	June 28, 1928	7·77
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	June 28, 1928	7·75
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	Aug. 27, 1927	6·00
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	Nov. 12, 1923	5·57
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	Nov. 13, 1923	5·14
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	July 4, 1928	5·12
,,	,, ...	Blaenau Festiniog (Cwmorthin)	Jan. 29, 1898	5·00
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	May 5, 1920	4·84
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	Feb. 4, 1928	4·75
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	Aug. 5, 1921	4·67
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	Aug. 8, 1914	4·66
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	Nov. 2, 1927	4·63
,,	,, ...	Blaenau Festiniog (Oakeley Q.)	Nov. 1, 1927	4·62
,,	,, ...	Blaenau Festiniog (Llechwedd Q.)	Nov. 1, 1927	4·60
,,	,, ...	Blaenau Festiniog (Oakeley Q.)	July 4, 1928	4·58
,,	Carnarvon.....	Snowdon (Llydaw Copper M.)	June 28, 1928	7·25
,,	,, ...	Snowdon (Llydaw Intake)	June 28, 1928	6·85
,,	,, ...	Snowdon (Cwm Dyli)	June 28, 1928	6·47
,,	,, ...	Snowdon (Pen-y-Gwryd)	Aug. 8, 1914	6·35
,,	,, ...	Lake Eigiau (Dam Site)	Nov. 3, 1931	6·20
,,	,, ...	Beddgelert Council Sch	Feb. 5, 1920	5·85
,,	,, ...	Snowdon (Cwm Dyli)	Nov. 3, 1931	5·71
,,	,, ...	Snowdon (Llyn Llydaw Copper M.)	Oct. 5, 1916	5·60
,,	,, ...	Snowdon (Llydaw Intake)	June 10, 1926	5·45
,,	,, ...	Snowdon (Llydaw Intake)	Nov. 4, 1926	5·40
,,	,, ...	Snowdon (Llydaw Copper M.)	June 10, 1926	5·37
,,	,, ...	Snowdon (Llydaw Copper M.)	Nov. 4, 1926	5·33
,,	,, ...	Bryn Gwynant	Oct. 6, 1874	5·32
,,	,, ...	Snowdon (Cwm Dyli)	Nov. 1, 1927	5·28
,,	,, ...	Snowdon (Llydaw Intake)	Oct. 5, 1916	5·18
,,	,, ...	Beddgelert (Council School)	June 28, 1928	5·16
,,	,, ...	Snowdon (Llydaw Copper M.)	April 14, 1926	5·13
,,	,, ...	Lake Eigiau	June 24, 1911	5·12
,,	,, ...	Snowdon (Cwm Dyli)	Nov. 12, 1923	5·09
,,	,, ...	Snowdon (Llydaw Copper M.)	Nov. 1, 1927	5·05
,,	,, ...	Snowdon (Cwm Dyli)	Nov. 13, 1923	4·96
,,	,, ...	Snowdon (Llydaw Copper M.)	Aug. 4, 1911	4·95
,,	,, ...	Snowdon (Cwm Dyli)	Nov. 4, 1926	4·90
,,	,, ...	Lake Cowlyd	Oct. 4, 1892	4·90
,,	,, ...	Beddgelert Council Sch	Sept. 15, 1918	4·90
,,	,, ...	Snowdon (Llydaw Intake)	Oct. 29, 1923	4·87
,,	,, ...	Snowdon (Llydaw Intake)	April 14, 1926	4·85
,,	,, ...	Snowdon (Cwm Dyli)	Sept. 15, 1918	4·84
,,	,, ...	Snowdon (Llydaw Intake)	Nov. 1, 1927	4·80
,,	,, ...	Snowdon (Cwm Dyli)	Feb. 4, 1928	4·65
,,	,, ...	Beddgelert Council Sch	Aug. 4, 1920	4·62
,,	,, ...	Snowdon (Llydaw Intake)	Jan. 31, 1933	4·60
,,	,, ...	Snowdon (Cwm Dyli)	April 14, 1926	4·52
,,	Isle of Man	Douglas (Clypse Res. Onchan)	Sept. 15, 1918	4·95
,,	,, ...	Douglas (Borough Cemetery)	Sept. 15, 1918	4·68
,,	,, ...	Ramsey (Town Hall)	Sept. 17, 1930	4·35
,,	,, ...	Ramsey (North Promenade)	Sept. 17, 1930	4·32
,,	Jersey	St. Lawrence (Little Grove)	Aug. 24, 1931	3·81

TABLE II.—*continued.*

Div.	County.	Station.	Date.	Amount.
				in.
		SCOTLAND.		
XII	Wigtown.....	Ardwell House.....	Oct. 8, 1903	3·17
,,	Kirkcudbright..	Drum Park.....	Aug. 30, 1879	4·00
,,	Dumfries.....	Wanlockhead.....	April 21, 1880	4·10
,,	Roxburgh.....	Kelso.....	Aug. 12, 1890	3·51
XIII	Selkirk	Galashiels.....	Aug. 10, 1901	3·98
,,	Peebles	Eddlestone (Portmore Res.).....	Aug. 17, 1920	3·33
,,	Berwick.....	Duns.....	June 24, 1911	3·30
,,	E. Lothian	Whittinghame	Aug. 10, 1901	3·57
,,	Midlothian	Pentland Hills (Harperrig).....	Aug. 17, 1920	4·10
,,	W. Lothian.....	Bathgate Filters.....	Aug. 17, 1920	4·25
,,	,, ...	Linlithgow Academy.....	Aug. 17, 1920	4·14
XIV	Lanark	Strathaven (Kype reservoir).....	Oct. 29, 1911	3·70
,,	Ayr	Fenwick (Whiteliehill)	Jan. 2, 1932	3·93
,,	Renfrew	Greenock.....	Dec. 9, 1909	4·10
,,	,, ...	Howwood (Midton House).....	Feb. 9, 1920	4·09
,,	,, ...	Lochwinnoch (Garthland).....	Nov. 29, 1917	4·00
XV	Dumbarton	Arrochar House.....	March 16, 1906	3·80
,,	Stirling.....	Duchray Valley (Glen Dhu).....	Dec. 20, 1916	4·45
,,	Bute	Corrie (The Manse).....	Jan. 2. 1932	3·20
,,	Argyll	Lochbuie.....	Dec. 9, 1909	6·32
,,	,, ...	Jura (Fladda).....	Nov. 19, 1901	5·75
,,	,, ...	Camusinas	Jan. 24, 1868	5·60
,,	,, ...	Glenleven (Kinlochleven).....	Feb. 2, 1909	5·59
,,	,, ...	Ardgour House.....	May 15, 1922	5·14
,,	,, ...	Conaglen.....	Nov. 1, 1898	5·09
,,	,, ...	Morvern (Kingairloch).....	Dec. 9, 1909	4·55
,,	,, ...	Glen Etive.....	Oct. 11, 1916	4·55
,,	,, ...	Corran Lighthouse.....	April 10, 1919	4·50
XVI	Clackmannan...	.....	.....	....
,,	Kinross.....	.....	.....	....
,,	Fife	Kirkcaldy.....	July 7, 1916	3·60
,,	Perth.....	Balquhidder (Stronvar)	Dec. 19, 1912	4·35
,,	Angus	Glen Prosen (Balnaboth).....	Oct. 4, 1920	4·81
,,	,, ...	Montrose.....	Sept. 20, 1891	4·00
XVII	Kincardine.....	Arnhall.....	Feb. 25, 1872	4·00
,,	Aberdeen	Glen Muick (Inchnabobart).....	Feb. 27, 1933	5·44
,,	Banff.....	Craigellachie.....	Nov. 9, 1915	3·50
,,	Elgin.....	Knockando.....	Nov. 9, 1915	3·70
,,	Nairn.....	Glenferness.....	Oct. 19, 1906	4·00
XVIII	Inverness	Loch Quoich (Kinlochquoich).....	Oct. 11, 1916	8·20
,,	,, ...	Ben Nevis Obs.....	Feb. 6, 1894	7·74
,,	,, ...	Ben Nevis Obs.....	Oct. 2, 1890	7·29
,,	,, ...	Croy (Dalcross Castle).....	Sept. 25, 1915	7·06
,,	,, ...	Loch Quoich (Kinlochquoich).....	Feb. 2, 1909	6·46
,,	,, ...	Loch Quoich (Kinlochquoich).....	Feb. 9, 1920	6·28
,,	,, ...	Ben Nevis Obs.....	May 27, 1902	5·92
,,	,, ...	Loch Quoich (Glenquoich).....	Oct. 11, 1916	5·82
,,	,, ...	Loch Quoich (Kinlochquoich).....	Nov. 28, 1917	5·82
,,	,, ...	Loch Quoich (Glenquoich).....	Oct. 2, 1890	5·64
,,	,, ...	Loch Quoich (Glenquoich).....	Jan. 28, 1892	5·59
,,	,, ...	Skye (Sligachan).....	Dec. 14, 1881	5·42
,,	,, ...	Glenfinnan	Nov. 8, 1884	5·21
,,	,, ...	Skye (Strathaird).....	Aug. 11, 1900	5·03
,,	,, ...	Skye (Portree).....	Oct. 14, 1877	4·98
,,	,, ...	Loch Arkaig (Glen Dessary).....	Oct. 13, 1916	4·95
,,	,, ...	Ben Nevis Obs.....	Sept. 1, 1891	4·93
,,	,, ...	Loch Arkaig (Achnacarry).....	Feb. 2, 1920	4·82
,,	,, ...	Loch Arkaig (Glen Dessary).....	Feb. 2, 1909	4·80
,,	,, ...	Ben Nevis Obs.....	Jan. 29, 1903	4·78
,,	,, ...	Loch Quoich (Kinlochquoich).....	April 3, 1912	4·75
,,	,, ...	Loch Quoich (Glenquoich).....	Jan. 30, 1903	4·72
,,	,, ...	Loch Quoich (Kinlochquoich).....	Dec. 12, 1924	4·70
,,	,, ...	Loch Quoich (Glenquoich).....	Nov. 28, 1917	4·67
,,	,, ...	Glenfinnan	Dec. 9, 1902	4·62
,,	,, ...	Skye (Dunvegan).....	Oct. 14, 1877	4·53
,,	,, ...	S. Uist (Ushenish).....	Nov. 19, 1901	4·52
,,	,, ...	Loch Quoich (Glenquoich).....	Nov. 2, 1898	4·50
,,	,, ...	Fort William (Atholl Bank)	Oct. 11, 1916	4·50
,,	,, ...	Glen Garry (Inchlaggan)	Oct. 14, 1916	4·50

TABLE II.—*continued.*

Div.	County.	Station.	Date.	Amount.
		SCOTLAND—*continued.*		in.
XVIII	Ross & Cromarty	Loch Carron (Dunhulladale)	April 2, 1933	6·50
,,	,, ,,	Glencarron Lodge	Oct. 2, 1890	5·90
,,	,, ,,	Ledgowan	Oct. 11, 1916	4·60
,,	,, ,,	Glencarron Lodge	Jan. 28, 1892	4·33
,,	,, ,,	Fortrose	Sept. 25, 1915	4·07
XIX	Sutherland	Tongue	Sept. 7, 1870	6 00
,,	,,	Strathmore (Achnacaillich)	Sept. 8, 1908	4·06
,,	,,	Tongue	Aug. 12, 1868	4·00
,,	Caithness	Thurso (Buckies)	June 21, 1917	3·05
,,	Orkney	Sanday	July 9, 1890	5·00
,,	Shetland	Bressay	July 19, 1891	3·00
		IRELAND		
XX	Cork	Dunmanway	Nov. 16, 1916	3·64
,,	Kerry	Killarney (District Asylum)	Oct. 21, 1916	5·35
,,	,,	Killarney (Flesk Mills)	Oct. 21, 1916	5·02
,,	,,	Kilgarvan (Inchimore)	Nov. 2, 1931	5·00
,,	,,	Kenmare (Dromquina)	Nov. 16, 1916	4·30
,,	,,	Kenmare (Derreen)	Oct. 18, 1882	4·28
,,	,,	Kenmare (Derreen)	Aug. 22, 1916	4·16
,,	,,	Kilgarvan (Inchimore)	Dec. 26, 1924	4·09
,,	,,	Kenmare (Dromore)	Oct. 21, 1916	4·07
,,	,,	Kilgarvan (Inchimore)	Dec. 1, 1929	4·07
,,	,,	Darrynane	Oct. 7, 1878	4·00
,,	,,	Kilgarvan (Inchimore)	Dec. 15, 1928	4·00
,,	Waterford	Kilmacthomas (Comragh Ho.)	Feb. 20, 1929	4·26
,,	Tipperary	Clonmel	Dec. 23, 1895	3·56
,,	Limerick	Abbeyfeale (Springmount Sch.)	June 9, 1926	3·15
,,	Clare	Miltown Malbay	Nov. 11, 1901	3·54
,,	Wexford	.....	.....	....
,,	Kilkenny	Kilkenny (Lavistown House)	Aug. 30, 1926	3·00
,,	,,	Roundwood (Vartry Lodge)	Sept. 3, 1931	4·90
XXI	Wicklow	Bray (Fassaroe)	Aug. 25, 1905	4·45
,,	,,	Roundwood	Sept. 3, 1931	4·20
,,	,,	Newcastle (Killadreenan)	Aug. 25, 1905	4·11
,,	Carlow	Fenagh	June 21, 1868	3·05
,,	Leix	Mountrath (Baunreagh)	Aug. 1, 1934	3·62
,,	Offaly	.....	.....	....
,,	Kildare	Timolin Vic	Aug. 30, 1904	3·65
,,	Dublin	Glen-na-Smoel (Rathmines W.W.)	Aug. 25, 1905	5·71
,,	,,	Glen-na-Smoel (Rathmines W.W.)	May 8, 1883	5·27
,,	,,	Glen-na-Smoel (Rathmines W.W.)	Dec. 1, 1910	4·36
,,	,,	Dundrum (Lynton)	Aug. 25, 1905	4·04
,,	Meath	Drumconrath (Achare House)	Aug. 25, 1905	3·94
,,	Westmeath	Castlepollard	Aug. 14, 1914	3·22
,,	Louth	Greenore	June 5, 1931	4·43
,,	,,	Drogheda (St. James')	Aug. 25, 1905	4·01
,,	Longford	.....	.....	....
XXII	Galway	Galway	Sept. 1, 1887	4·93
,,	Roscommon	.....	.....	....
,,	Mayo	Delphi Lodge	Nov. 18, 1926	5·06
,,	,,	Delphi Lodge	Dec. 12, 1924	4·62
,,	,,	Aasleagh House	Dec. 12, 1924	4·50
,,	,,	Aasleagh House	Nov. 18, 1926	4·12
,,	Sligo	.....	.....	....
,,	Leitrim	Spencer Harbour	Aug. 2, 1876	3·10
XXIII	Cavan	Stradone House	Aug. 25, 1905	3·08
,,	Fermanagh	Enniskillen (Florence Ct.)	Oct. 24, 1934	3·27
,,	Monaghan	Dartrey	July 8, 1896	3·21
,,	Armagh	.....	.....	....
,,	Down	Annalong Valley	June 5, 1931	5·70
,,	,,	Mourne Mts. (Fofanny Res.)	Dec. 15, 1928	5·45
,,	,,	Mourne Mts. (Fofanny Res.)	Aug. 2, 1876	4·50
,,	,,	Mourne Mts. (Fofanny Res.)	Dec. 30, 1920	4·37
,,	,,	Mourne Mts. (Fofanny Res.)	Dec. 25, 1914	4·25
,,	,,	Mourne Mts. (Fofanny Res.)	Dec. 10, 1930	4·10
,,	Antrim	Glenarm Castle	July 24, 1896	3·50
,,	Londonderry	.....	.....	....
,,	Tyrone	Stewartstown (Ardtree Rectory)	June 27, 1893	4·16
,,	Donegal	Tamney Rectory	Sept. 6, 1908	3·56

No day with as much as 3·00 inches has been reported from the counties of Clackmannan, Kinross, Wexford, Offaly, Longford, Roscommon, Sligo, Armagh and Londonderry. In addition the following counties have never given an entry of as much as 4·00 inches :— Northamptonshire, Huntingdonshire, Bedford, Cambridge, Gloucester, Hereford, Worcester, Warwick, Rutland, Yorks. E. R., Wigtown, Roxburgh, Selkirk, Peebles, Berwick, East Lothian, Lanark, Ayr, Dumbarton, Bute, Fife, Banff, Elgin, Caithness, Shetland, Cork, Tipperary, Limerick, Clare, Kilkenny, Carlow, Leix, Kildare, Meath, Westmeath, Leitrim, Cavan, Fermanagh, Monaghan, Antrim and Donegal. While the counties cited above have relatively few observing stations where daily readings are taken, and also include most of the smaller counties the counties are grouped in such a definite geographical manner that there is little doubt that the distribution does represent a distinct climatic factor. In the first group, including most of Ireland, steady rather than intense rainfall is the dominating feature. These counties lying to the west of the land masses of Great Britain and the continent are naturally relatively free from intense rains of convectional origin, while the elevation of the land is not sufficiently great to cause very heavy orographical falls. The second group includes much of the Midlands of England. The explanation seems to be that, while this area is liable to intense rains they are rarely sufficiently sustained to give large amounts in any day. The third zone includes most of the counties along the east of Scotland as well as the East Riding of Yorkshire.

An interesting feature of the table is the long interval which may occur without the addition of a heavy fall to the list for any county, followed by a run of years contributing a number of falls. The most striking example is Yorkshire N. R., for which there is no entry from 1889 to 1928 but a number of entries for 1928, 1930 and 1931. The infrequency of entries prior to 1928 makes the similarity of the rains of July 22nd, 1930, and September 4th, 1931, all the more noteworthy, in that on the former occasion as much as 5·70 inches was recorded at Castleton and on the latter occasion 5·01 inches at the same station.

Amongst the more striking totals recorded in two days or more reference may be made to the following :—

Days.			Inches.
2	Aug. 24–25, 1891.	Borrowdale (Seathwaite) Cumberland	10·24
2	Nov. 2– 3, 1931.	Trecastle (Blaenau-hydfer) Brecon ..	9·61
2	Dec. 16–17, 1932.	Borrowdale (The Moraine) Cumberland	9·23
3	Oct. 25–27, 1888.	Wythburn, Cumberland	10·92
4	July 20–23, 1930.	Castleton, Yorks, N.R...	11·97
4	Oct. 18–21, 1908.	Portland (H.M. Breakwater) Dorset ..	9·34
4	May 6– 9, 1913.	Glen Prosen (Balnaboth Gdns.) Angus	9·09

A list is given in Table III of all falls exceeding 7 inches for the rainfall day, taken from Table II. It is interesting to note that the wettest stations do not head the list. The average annual rainfall at the first four stations is only 30 to 35 inches. The fifth, sixth and seventh stations are much wetter, with an annual rainfall in each case exceeding 80 inches. Half the entries in the list are due to convectional rains at relatively dry stations and the remainder to more persistent rains at wetter stations in the mountainous regions. Of the 18 entries five are for the Bruton storm of June 28th, 1917, three

TABLE III.—*List of Heavy Falls on Rain-days (exceeding 7 inches).*

County.	Station.	Fall.	Date.
		in.	
Somerset ..	Bruton (Sexey's School).....	9·56	June 28th, 1917
Somerset ...	Cannington (Brymore House).....	9·40	Aug. 18th, 1924
Somerset ...	Bruton (King's School)	8·48	June 28th, 1917
Somerset ...	Aisholt (Timbercombe)	8·39	June 28th, 1917
Glamorgan .	Rhondda (Lluest Wen Reservoir) ...	8·31	Nov. 11th, 1929
Inverness ...	Loch Quoich (Kinlochquoich).....	8·20	Oct. 11th, 1916
Cumberland .	Borrowdale (Seathwaite)	8·03	Nov. 12th, 1897
Somerset ..	Bruton (Pitcombe Vicarage)	7·90	June 28th, 1917
Merioneth ..	Blaenau Festiniog (Oakeley Q.)	7·77	June 28th, 1928
Merioneth ..	Blaenau Festiniog (Llechwedd Q.) ..	7·75	June 28th, 1928
Inverness ..	Ben Nevis Observatory	7·74	Feb. 6th, 1894
Norfolk	Brundall (Blofeld Rd.).....	7·31	Aug. 26th, 1912
Inverness ...	Ben Nevis Observatory	7·29	Oct. 2nd, 1890
Carnarvon ..	Snowdon (L. Llydaw Copper M.) ...	7·25	June 28th, 1928
Brecon	Trecastle (Blaenau-hydfer)	7·25	Nov. 3rd, 1931
Norfolk	Sprowston Council School	7·20	Aug. 26th, 1912
Inverness ..	Croy (Dalcross Castle)	7·06	Sept. 25th, 1915
Somerset ..	Cothelstone House	7·05	June 28th, 1917

for the orographical rains of June 28th, 1928 and two for the storm which caused the Norwich floods of August 26th, 1912. There are two entries for Ben Nevis Observatory. As explained earlier in this article the entries must not be taken as the largest amounts which have fallen anywhere in these islands, but they are given as the largest on record.

The definition of the maximum amount of rain experienced during a rainfall day is of importance not only as a contribution to our knowledge, but also from certain practical aspects. The information accumulated in this section in the seventy issues of *British Rainfall* has enabled the volume of rain falling over specified areas to be determined for a large number of storms. While most stations make observations once a day only it has been possible, from the records of automatic gauges or from eye observations, to define the duration of the total rainfall in a large number of cases. This information has been summarised in a paper read before the Institution of Civil

Engineers in 1929 and entitled "The Areas Covered by Intense and Widespread Falls of Rain." The type of information available is shown by the following details for the storms of June 28th, 1917, and August 26–27th, 1912:—

Storm.	Duration (hours).	Area with more than: 9	8	7	6	5	4 inches
Bruton	16	2	13	29	85	288	809 sq. miles
Norwich ..	20	—	—	140	550	920	1660 ,,

THE FREQUENCY OF HEAVY RAINS LASTING FROM 1 TO 48 HOURS AT KEW OBSERVATORY DURING THE PERIOD 1878 TO 1927.

By E. G. BILHAM, B.Sc. and R. F. M. HAY.

The object of the investigation was to ascertain the frequency of occurrence, at a station for which suitable records were available, of heavy rainfalls of specified intensity and duration. Kew Observatory was selected because it possesses a long and sufficiently homogeneous series of autographic rainfall records and also because it is in the area where intense rains of the thunderstorm type occur fairly frequently. Attention has been devoted to falls (A) 1·0 inch (25 mm.) (B) 1·5 inch (37 mm.) and (C) 2·0 inch (51 mm.) occurring in times (a) 1 hour or less, (b) 2 hours or less, (c) 5 hours or less, (d) 8 hours or less, (e) 16 hours or less, (f) 24 hours or less, (g) 48 hours or less.

It may be noted that the specifications of categories A(a), A(b), A(c) and A(f) correspond to certain columns in Table XVI of *British Rainfall*, Part II, Section 6. Categories (d) (e) and (g) were added because it was thought desirable to have information referring to two periods between 5 hours and 24 hours, and to one period longer than 24 hours. The investigation was extended to falls of 1·5 and 2·0 inches in order that data might be available for rainfall amounts greater than 1 inch.

Part of this work had been already carried out in the Meteorological Office and we had data for categories A(a) and A(b) based on an examination of the original autographic records covering the 50 years 1878–1927.

A method of procedure based on an examination of the original autographic records is extremely tedious and it was decided to obtain the data for categories (c) to (g) from the tabulated hourly values of rainfall which are available for the whole period. It was realised of course that by adopting this method we tended to underestimate the frequencies in each category. The error is probably slight, however, because rains of 1·5 inch in under 5 hours or of 2·0 inch in under 8 hours are evidently very rare.

The term "frequency," as employed in the paper, refers to number of days, when periods of under 24 hours are in question. That is to say, if more than one heavy fall occurred on the same day, only one, usually the more intense, would be included in the tabulations. A heavy fall lasting less than 24 hours, beginning on one day and ending on the next, was allotted to the day which contributed the major portion.

There is one further point that calls for mention. Our method of procedure was to prepare a list of occasions when the total fall in n consecutive tabular hours was at least 1·0 inch (25 mm.), n having values 5, 8, 16, 24 and 48. The amount of rain, date and time of commencement and cessation were noted. From this list the occasions when the fall amounted to 1·5 inch (37 mm.) or more were noted, and also those when the fall amounted to 2·0 inch (51 mm.) or more. We thus ascertained how often a given amount of rainfall R, *or more*, occurred in n hours *or less*. This mode of expression is rather cumbrous and in stating the results we have usually omitted the words "*or more*" after the figure giving the amount of rainfall.

The results expressed in the form of frequencies per 100 years are given in Table I and are plotted in the form of curves in Fig. 1. The plotting points are shown in the figure by circles. For 1·0 inch a smooth curve can be drawn through the plotting points without difficulty. For 1·5 inch and 2·0 inch the points show a certain amount of scatter but the lines as drawn may perhaps be accepted as a fair representation. From the three curves we have obtained the following values representing specified frequencies (N times per 100 years).

	N=10	*N=20*	*N=50*
1·0 inch in	1·0 hours	2·0 hours	5 hours
1·5 inch in	8 hours	13 hours	30 hours
2·0 inch in	24 hours	48 hours	—

If the frequencies of falls of 1·0 inch are plotted with logarithmic scales for both frequency and time, all points except the first are found to lie very nearly on a straight line. This suggests that the values of N (frequency per 100 years) are related to the values of T (time in hours) by a formula of the type

$$N = aT^b$$

where a and b are constants. The best fit is given by the formula

$$N = 12{\cdot}5\ T^{-88} \quad \text{or} \quad \log N = 1{\cdot}097 + 0{\cdot}88 \log T$$

The calculated and observed values of N are shown below.

T =	1	2	5	8	16	24	48 hours
N (calculated) =	12·5	23	52	78	144	205	378
N (observed) =	6	22	56	74	146	208	356

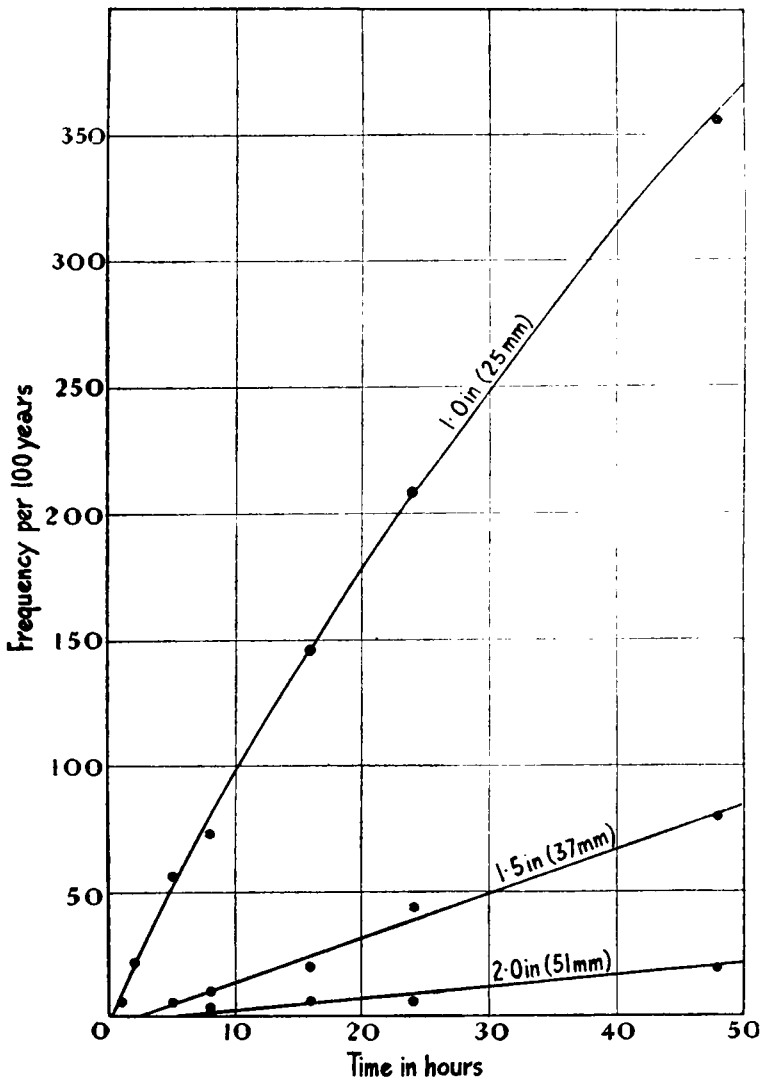


Fig. I. Kew Observatory : frequency per 100 years of falls of 1·0 inch, 1·5 inch, or 2·0 inch of rain within a specified period.

The agreement is good except in the case of T=1. In this connexion it may be noted that in the 10 years ended 1934 there were 4 occurrences of an inch of rain in 1 hour or less at Kew. This gives a frequency of 40 per 100 years, which is greatly in excess of that yielded by the period 1878–1927. If instead of using the 50 years 1878–1927 we had used the 50 years 1885–1934, the value of N for T=1 would have been 12 instead of 6, in almost exact agreement with the value indicated by the formula. The change of period would have modified the other entries only slightly.

Monthly and Seasonal Distribution.

In Table II the falls in categories A(c) to A(g) are analysed for the purpose of investigating the monthly and seasonal distribution of heavy falls. In Table III the same data are expressed as percentages of the yearly totals in each category.

It will be seen that falls of 1 inch in 5 hours or less are confined to the period May to October and that about 90 per cent. of them occur between June and September. As the specified number of hours increases, the summer maximum becomes less predominant but we find a maximum in July, even for rains of 1 inch in 48 hours or less. For this class there is, however, a marked secondary maximum in October. February shows the lowest frequency of

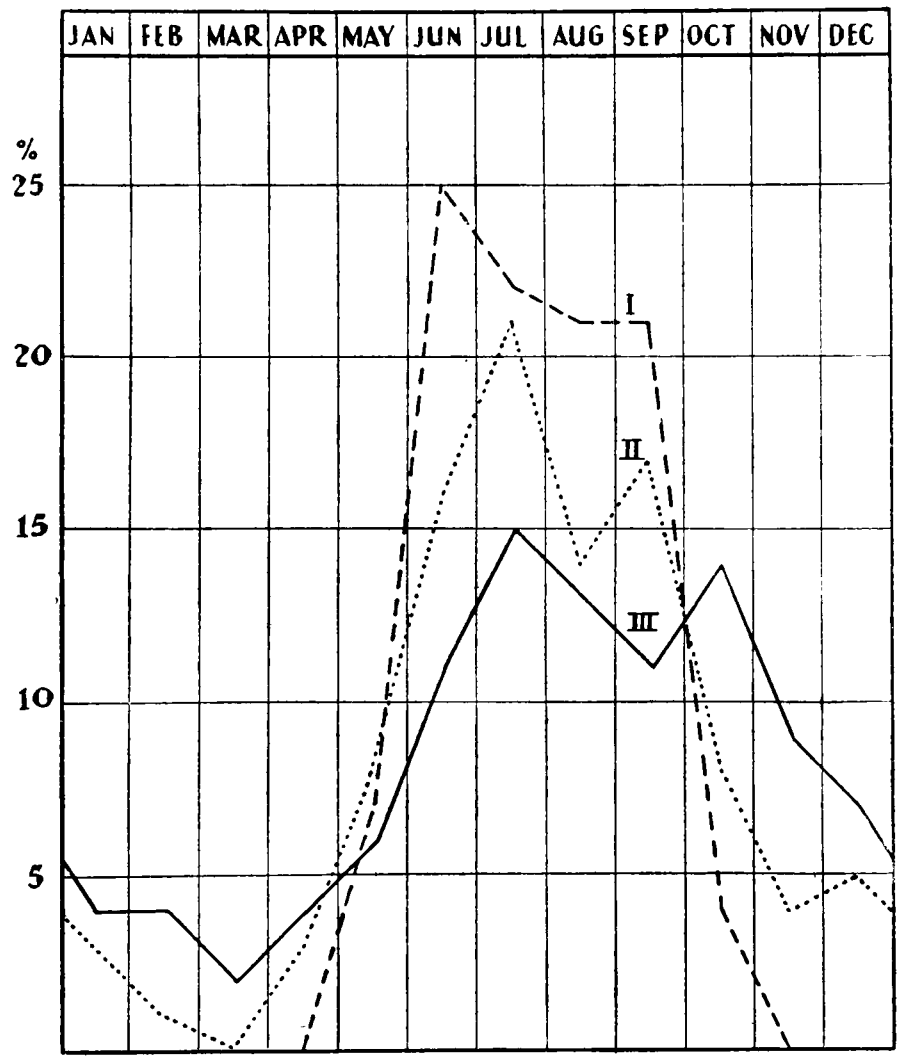


Fig. 2. Monthly percentage distribution of falls of (i) 1 inch in 5 hours or less, (ii) 1 inch in 16 hours or less, (iii) 1 inch in 48 hours or less.

rains of 1 inch in 24 hours or less, but the lowest frequency of rain of this amount in 48 hours or less occurs in March.

The monthly percentage distribution of falls of 1 inch in 5, 16 and 48 hours or less, is illustrated graphically in Fig. 2, which brings out very clearly the change in the form of the seasonal variation as the period increases.

It is of interest to compare the frequency of occurrence of 1 inch of rain in any 24 consecutive hours with the frequency of occurrence of the same amount of rain on a *rain-day*, that is to say in a fixed period of 24 hours terminating at 9h. G.M.T. Such a comparison can be carried out by using the data given in Table II in conjunction with those given for Kew Observatory on page 273 of *British Rainfall*, 1932, in an article on " The frequency distribution of daily rainfall " by E. G. Bilham and A. C. Lloyd. The results are as follows :

Number of occasions per 100 years of a fall of 1 inch in	*Winter.* Dec. to Feb.	*Spring.* March to May	*Summer.* June to Aug.	*Autumn.* Sept. to Nov.	*Whole Year.*
(a) any 24 consecutive hours.	22	26	94	66	208.
(b) a rain-day	17	16	72	45	150.

It appears from these figures, that if we use ordinary daily readings of rainfall for the purpose of estimating how often an inch of rain may occur in 24 hours, our estimate will be about one third too low, the error varying somewhat with the season.

Tables IV and V are on similar lines to Tables II and III but refer to falls of 1·5 inch (37mm.). A curious fact revealed by these tables is the immunity of August from falls of 1·5 inch in periods under 16 hours. Another rather unexpected result is that the maximum frequency of falls of this amount in 48 hours or less occurs in September. In other respects there is a general resemblance between the results for 1·5 inch and 1·0 inch.

The 50 years under review yielded only 3 falls of 2·0 inches in 24 hours or less. Of these one occurred in June and two in July. The 10 cases of 2·0 inches in 48 hours or less were distributed as follows :—

Jan. 0	July 4
Feb. 0	Aug. 0
Mar. 0	Sep. 2
Apr. 0	Oct. 0
May 1	Nov. 0
June 3	Dec. 0

Two of the falls in June and two in July yielded over 3 inches in 48 hours.

Diurnal Variation.

For the purpose of obtaining some information in regard to the diurnal variation of heavy falls the data for falls of 1 inch in 5 hours or less were analysed as shown in Tables VI and VII. Table VI shows the total number of occasions in the 50 years 1878–1927 when a given tabular hour formed one of a group of 5 yielding a total fall of 1 inch or more ; and Table VII shows the total number of occasions when a given tabular hour was the central hour of the group.

The term "tabular hour" unfortunately does not mean the same thing throughout the 50 years record. From 1904 to 1920 it was the practice to tabulate rainfall for periods of 60 minutes centred at the exact hours G.M.T. For other years the tabular hours marked 1, 2, 3 . . . refer to periods of 60 minutes ending at 1h., 2h., 3h., . . . G.M.T. The data are not therefore quite homogeneous but it appears probable that the half-hour error in time due to the difference of practice in 1904–1920 has not seriously affected the results.

The results given in Table VI are represented graphically in Fig. 3. It will be seen that they show a very definite diurnal variation, with a sharp minimum at 11h.—12h. and a major maximum at 22h.—23h. There is a secondary maximum around 16h. which is no doubt due to afternoon convectional thunderstorms. The late time of occurrence of the main maximum is surprising, but perhaps the most striking fact brought out by this analysis is that the tabular hour 11h.–12h. has not in 50 years made a single contribution to the class of heavy rains under consideration.

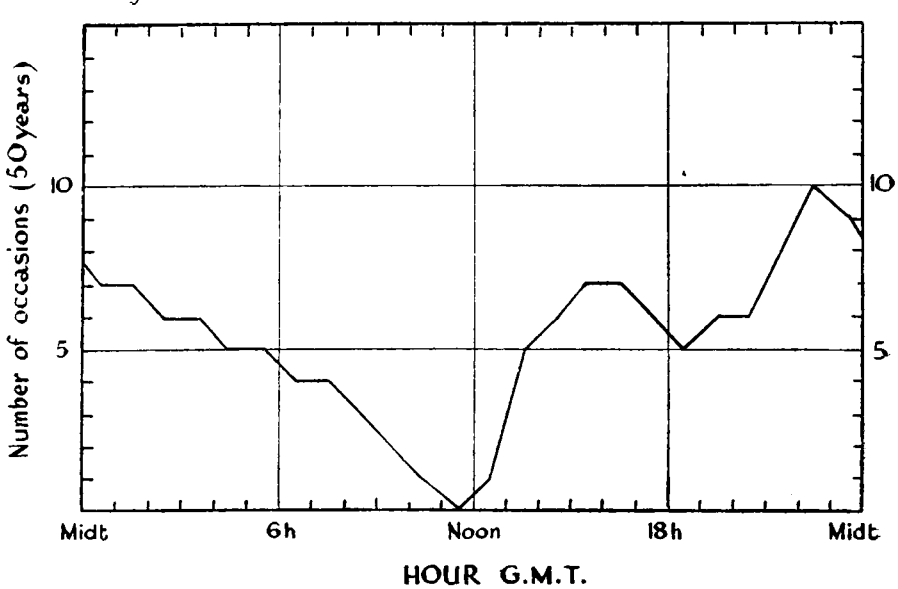


Fig. 3. Number of occasions in 50 years when a given tabular hour was one of a group of five yielding one inch of rain or more.

D. Dewar[1] has given the following values of the mean frequency of heavy rains at Kew based on an analysis of 50 years' observations (1872–1921).

Early Morning. (1 a.m.—7 a.m.)	*Forenoon.* (7 a.m.—1 p.m.)	*Afternoon.* (1 p.m.—7 p.m.)	*Night* (7 p.m.—1 a.m.)
·107	·105	·123	·101

If the values in Table VI are totalled for similar periods we obtain the following figures :—

33	11	36	46

Mr. Dewar defined " heavy rain " as rain yielding a total of ·04 inch (0·9 mm.) or more in the 6-hour period and his frequency values represent the quotients of the number of occurrences of such rains divided by the total number of periods. Our figures do not represent anything accurately definable in respect to aggregate rainfall amount for the 6-hour periods, but they may be taken as quantitative estimates of the relative frequencies of occurrence of a certain type of rain at different times of day. The type of rain considered is much more intense than that dealt with by Mr. Dewar. It is perhaps not surprising, therefore, that the two sets of data show little agreement in respect to the character of the diurnal variation.

[1] *An investigation of the statistical probability of rain in London.*—London Q.J.R. Meteor. Soc. *60*, 1934, pp. 285–312.

Table I.—*Frequencies per* 100 *years of stated amounts of rain in specified periods.*

Period.	1·0 inch (25 mm.)	1·5 inch (37 mm.)	2·0 inch (51 mm.)
1 hour or less	6	0	0
2 hours ,, ,, ...	22	0	0
5 hours ,, ,, ...	56	6	0
8 hours ,, ,, ...	74	10	4
16 hours ,, ,, ...	146	20	6
24 hours ,, ,, ...	208	44	6
48 hours ,, ,, ...	356	80	20

Table II.—*Monthly and Seasonal Frequencies of Falls of* 1·0 *inch* (25 *mm.*) *in stated periods* (*number of occasions in* 100 *years*).

Month or Season.	5 hours or less.	8 hours or less.	16 hours or less.	24 hours or less.	48 hours or less.
January	—	—	4	8	12
February	—	—	2	2	14
March	—	—	—	4	8
April	—	—	4	8	14
May	4	6	12	14	22
June	14	14	24	30	40
July	12	22	30	34	54
August	12	12	20	30	46
September	12	12	24	32	40
October	2	6	12	22	50
November	—	2	6	12	30
December	—	—	8	12	26
Winter ..... (Dec. to Feb.)	—	—	14	22	52
Spring ..... (Mar. to May)	4	6	16	26	44
Summer ..... (June to Aug.)	38	48	74	94	140
Autumn ..... (Sep. to Nov.)	14	20	42	66	120

Table III.—*Monthly and Seasonal Frequencies of Falls of* 1·0 *inch* (25 *mm.*) *in stated periods, expressed as percentages of the total frequencies.*

Month or Season.	5 hours or less.	8 hours or less.	16 hours or less.	24 hours or less.	48 hours or less.
January	—	—	3	4	4
February	—	—	1	1	1
March	—	—	—	2	2
April	—	—	3	4	4
May	7	8	8	7	6
June	25	19	16	14	11
July	22	30	21	16	15
August	21	16	14	14	13
September	21	16	17	15	11
October	4	8	8	11	14
November.....	—	3	4	6	9
December	—	—	5	6	7
Winter	—	—	9	11	15
Spring	7	8	11	13	12
Summer	68	65	51	44	39
Autumn	25	27	29	32	34

Table IV.—*Monthly and Seasonal Frequencies of Falls of* 1·5 *inch* (37 *mm.*) *in stated periods* (*number of occasions per* 100 *years*).

Month or Season.	5 hours or less.	8 hours or less.	16 hours or less.	24 hours or less.	48 hours or less.
January	—	—	—	2	8
February	—	—	—	—	—
March	—	—	—	—	—
April	—	—	—	2	2
May	—	2	4	6	6
June	4	4	6	8	14
July	2	4	8	8	10
August	—	—	—	8	8
September	—	—	2	8	16
October	—	—	—	—	8
November.....	—	—	—	—	2
December	—	—	—	2	6
Winter	—	—	—	4	14
Spring	—	2	4	8	8
Summer	6	8	14	24	32
Autumn	—	—	2	8	26

Table V.—*Monthly and Seasonal Frequencies of Falls of* 1·5 *inch* (37 *mm.*) *in stated periods, expressed as percentages of the total frequencies.*

Month or Season.	5 hours or less.	8 hours or less.	16 hours or less.	24 hours or less.	48 hours or less.
January	—	—	—	5	10
February	—	—	—	—	—
March	—	—	—	—	—
April	—	—	—	5	3
May	—	20	20	13	7
June	67	40	30	18	17
July	33	40	40	18	13
August	—	—	—	18	10
September	—	—	10	18	20
October	—	—	—	—	10
November.....	—	—	—	—	3
December	—	—	—	5	7
Winter	—	—	—	10	17
Spring	—	20	20	18	10
Summer	100	80	70	54	40
Autumn	—	—	10	18	33

Table VI.—*Number of occasions in* 50 *years* (1878–1927) *when a given tabular hour formed one of a group of five yielding a total rainfall of* 1·0 *inch* (25 *mm.*) *or more*

Hour Ending	1h.	2h.	3h.	4h.	5h.	6h.	7h.	8h.	9h.	10h.	11h.	12h.
Number of occasions ...	7	7	6	6	5	5	4	4	3	2	1	0
Hour Ending	13h.	14h.	15h.	16h.	17h.	18h.	19h.	20h.	21h.	22h.	23h.	24h.
Number of occasions ...	1	5	6	7	7	6	5	6	6	8	10	9

Table VII.—*Number of occasions in* 50 *years* (1878–1927) *when a given tabular hour was the central hour of a group of five yielding a total rainfall of* 1·0 *inch* (25 *mm.*) *or more*

Hour Ending	1h.	2h.	3h.	4h.	5h.	6h.	7h.	8h.	9h.	10h.	11h.	12h.
Number of occasions ...	2	—	3	—	1	1	1	1	—	—	—	—
Hour Ending	13h.	14h.	15h.	16h.	17h.	18h.	19h.	20h.	21h.	22h.	23h.	24h.
Number of occasions ...	—	3	2	1	1	2	—	2	3	2	2	1

A "DAY AND NIGHT" RAIN-GAUGE AND SOME PROBLEMS ARISING FROM ITS USE.

By E. G. BILHAM, B.Sc., and Miss L. F. LEWIS, B.Sc.

Early in 1932 the need was felt for a rain-gauge which would record day and night falls separately. An instrument was devised in the Instruments Division of the Meteorological Office in which the rain-collecting funnel discharges into a pivoted trough. The trough is connected to an arm, which during the daytime, rests on a track driven by clock mechanism and so keeps the trough tilted towards the left hand can. The length of the track is such that if the arm is on the beginning of the track at 9 a.m. it will reach the end of the track at 6 p.m. and be released. When this happens, the weight of the arm tilts the trough towards the right hand can. Thus, all the rain which falls between 9 a.m. and 6 p.m. falls into the left hand can which is painted white and labelled "Day." After 6 p.m. all the rain falls into the right hand can until the lever is reset. The right hand can is painted black and labelled "Night." The mechanism is contained in a wooden box with a rounded lid through which the funnel passes. This instrument was placed near the Natural Syphon gauge on the roof of the Meteorological Office at South Kensington and the daily readings were compared during a period of $2\frac{1}{2}$ weeks. It was found that the measurements in the two-can gauge were nearly always less than those in the Natural Syphon Gauge. The difference was attributed to two causes:

(*a*) eddying over the funnel due to the large obstruction offered to the wind

(*b*) evaporation from the two cans.

At the time (*a*) was considered the most important cause of the discrepancy and it was decided to have an instrument made with a few minor alterations and to set it up partly buried in the ground so that the box was all below ground level except the top inch and the rim was approximately 12 inches above ground. The obstruction offered to the wind would then differ little from that of a standard 5-inch gauge. The new instrument was installed at Regent's Park and measurements obtained with it were compared with those of the standard gauge for the 6 months October, 1933, to March, 1934. It

was found that the daily totals as measured by the two-can gauge were still consistently low. The difference amounted to about five per cent. for the period October, 1933, to February, 1934. On March 7th, the observer at Regent's Park, who had found some difficulty in pouring the water from the cans into the measuring glass, substituted milk bottles for the cans. Thereafter, from March 7th—31st, the discrepancy disappeared.

This result suggested the desirability of an enquiry into the relative losses due to pouring and evaporation from a copper can and from a milk bottle.

Measurement of " pouring " and " evaporation " losses. A measured quantity of water was poured into a measuring cylinder the exact volume being obtained by weighing. The water was then poured into a copper rain-gauge can (five-inch) from such a height as to produce about as much splashing as would occur in a rain-gauge under ordinary conditions of use. It was poured back into the cylinder and the can was dried with a cloth. The experiment was repeated ten times. When pouring the water from the can back into the cylinder, no effort was made to shake out the last drop but it was allowed to drain for a short time, as a careful rainfall observer might do. At the end of the tenth operation the water was again weighed and the loss in weight was found to be 9·5 grammes. Dividing by 10 to get the pouring loss for a single operation, a figure was found equivalent to ·07 mm. of rain in a 5-inch gauge. The whole experiment was repeated using a 1 pint milk bottle in place of the copper can and the loss was found to be equivalent to ·05 mm. of rain.

An experiment was next carried out to find the relative losses due to evaporation from a five-inch rain-gauge using as collecting vessels

(*a*) an inner can (11·5 cm. diam.)
(*b*) a milk bottle (4 cm. diam. at mouth)
(*c*) an M.O. bottle (2 cm. diam. at mouth).

A measured quantity of water was placed in each type of collecting vessel and the vessels were placed in three five-inch rain-gauges. The latter were packed side by side in a deep wooden box with wood wool to within a foot of their rims. The whole was placed on the Meteorological Office roof for 24 hours and the loss due to evaporation of the water in each of the vessels was determined by weighing. The experiment was repeated on dry days during the period May to July, 1934, when the weather was mainly fair and warm, with frequent fresh easterly winds. If rain fell during the night, the experiment was discarded. The collecting vessels were changed about among the gauges from time to time and the gauges were brought indoors when it rained.

Seventeen 24-hour observations were obtained and the mean 24-hour losses were equivalent to

(*a*) by inner can 0·28 mm.
(*c*) by milk bottle 0·15 mm.
(*d*) by M.O. bottle 0·16 mm. (1)

Observations carried out over many years at Camden Square show that evaporation varies according to the season, the monthly total being greatest in July. Monthly averages for the period 1885—1919 are given at the foot of Table XXVII, p. 141. The mean daily evaporation is slightly higher in June than in July. Expressed in terms of the June value as unity the mean daily evaporation in each month has the following value

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
·03	·09	·22	·52	·82	1·00	·99	·77	·47	·21	·08	·03

It seems reasonable to assume that these values would also represent the relative rates of evaporation from a rain-gauge receiver. In the above experiment each of the 24-hour readings obtained in May and July was divided by the appropriate factor and the mean 24-hour value of the evaporation loss for the three vessels under June conditions was thus estimated to be

(*a*) 0·30 mm.
(*b*) 0·16 mm.
(*c*) 0·17 mm. (2)

The average amount of evaporation in 24 hours from water in any of the three vessels in any month can now be estimated from (2) by multiplying by the appropriate factor.

These experiments show that other things being equal both the pouring loss and the evaporation loss are somewhat greater when the collecting vessel of a rain-gauge is a can of fairly large diameter than when it is a bottle of smaller diameter.

Combined errors due to pouring and evaporation at various types of stations. At most stations rainfall is measured only once a day, in the morning, but at some stations it is measured twice a day, in the morning and in the evening. At the latter type of station, the evaporation losses will usually be lower because the average interval between the collection and measurement of the rain is reduced. On the other hand, the pouring losses will be increased because on many occasions the total fall of rain in the 24 hours will be divided into two portions measured separately. A third type of routine is made possible by the introduction of the " day and night " rain-gauge

described in the first section of this paper. Here we have an arrangement rather similar to that at stations where rainfall is measured twice a day, but with this difference that two separate vessels are used and that the measurement of the " day " rainfall is postponed till the following morning. It is of interest to examine the question of the effect of evaporation and pouring losses on the measurements made at stations of the three types. We will assume in the first place that similar collecting vessels are used so that similar evaporation and pouring losses will occur under similar conditions at each type of station. We will also assume that both losses are the same whether the actual amount of rain is large or small.

Station A. Rain measured once daily in the morning.

Let N be the number of rain-days in a particular period, and let E be the average loss by evaporation occurring in a full 24 hours from water exposed in the collecting vessel of the gauge. The collected water will stand for periods varying from almost nothing to 24 hours. The average loss by evaporation will be something more than $\frac{1}{2}$E but it must be less than E. We will take $\frac{3}{4}$E per rain day as a rough estimate. The total loss by evaporation in the whole period will therefore be $\frac{3}{4}$E.N. The loss by pouring will be $N \times p$ where p is the average loss occurring at each pouring. The total loss in the period is therefore $N(\frac{3}{4}E + p)$.

Station B. Rain measured twice daily, morning and evening.

Let N_D be the number of occasions on which rain occurs only in the " day " period, N_N the number of occasions on which rain occurs only in the " night " period and N_{DN} the number of occasions when some rain occurs both during the day and during the night. Let E_D be the evaporation during a full day and E_N the evaporation during a full night. The day rain will be subject to an aggregate loss $(N_D + N_{DN})$ $(\frac{3}{4}E_D + p)$ and the night rain will be subject to an aggregate loss $(N_N + N_{DN})$ $(\frac{3}{4}E_N + p)$. The total loss in the period is the sum of these two quantities.

Station C. " Day and Night " Rain-gauge.

The only modification from the previous case arises from the fact that the day rain is subject to an additional full night's evaporation before measurement and the total loss is therefore:

$$(N_D + N_{DN})\ (\tfrac{3}{4}E_D + E_N + p) + (N_N + N_{DN})\ (\tfrac{3}{4}E_N + p).$$

The experiments already referred to showed that the average value of p was ·07 mm. for a can and ·05 for a bottle. In a month such as June E was found to be 0·30 mm. for a copper can, 0·16 mm. for a 1-pint milk bottle and 0·17 mm. for a 1-pint bottle of the type supplied with M.O. gauges. The rate of evaporation is undoubtedly

smaller by night than by day but on the other hand the duration of the " night " period 18 h. to 9 h. exceeds that of the " day " period 9 h. to 18 h. by 67 per cent. We shall, therefore, probably not go far wrong if we assume $E_D = E_N = \frac{1}{2}E$. An analysis of the data for Kensington Palace gave the following values for N, N_D, N_N and N_{DN}

$$\begin{aligned} N &= 180 \text{ per year.} \\ N_D &= 50 = \tfrac{1}{3} N \text{ nearly.} \\ N_N &= 65 = \tfrac{1}{3} N \text{ nearly.} \\ N_{DN} &= 65 = \tfrac{1}{3} N \text{ nearly.} \end{aligned}$$

Substituting in the expressions found above we find that the average loss per rain day is represented by the following expressions

$$\begin{aligned} &\text{Station A} — \tfrac{3}{4}E + p \\ &\text{Station B} — \tfrac{2}{3}(\tfrac{3}{4}E + 2p) \\ &\text{Station C} — \tfrac{2}{3}(\tfrac{5}{4}E + 2p) \end{aligned}$$

and we obtain the following values of the average losses per rain day under July conditions of evaporation

	Can. mm.	*Bottle.* mm.
Station A (one measurement)	·30	·17
Station B (two measurements)	·25	·15
Station C (day and night gauge)	·34	·20

It is of interest to note that the total losses are smallest for Station B, which means that at Station B the gain resulting from the diminished evaporation of the day rain more than compensates for the loss due to the extra pouring. The effect of extra evaporation as well as extra pouring in the " day and night " gauge is shown by the relatively high losses arising when that type of measurement is employed.

If evaporation could be reduced to zero, the average loss per rain day would be approximately ·07 mm. at Station A and ·10 mm. at Stations B and C when a can is employed, and about ·05 mm. at Station A and ·07 mm. at Stations B and C when a bottle is employed. Assuming that the mean daily loss throughout the year lies about halfway between these values and those obtained under summer conditions of evaporation we arrive finally at the following estimates of the aggregate annual losses

	Can. mm.	*Bottle.* mm.
Station A	33	20
Station B	31	20
Station C	40	25

In practice the losses would probably be less than these estimates because the pouring loss would only reach the values on which the estimates are based on occasions when the collecting vessel had time

to become dry (by evaporation of the adhering water) before the next fall of rain. A bottle, in particular, would not often become completely dry, consequently on most occasions some portion of the adhering water would be added to the next measurement of rainfall. About half the total error as estimated above is due to pouring losses. It is highly desirable, therefore, to keep these as low as possible, and from that point of view a bottle with a narrow neck has substantial advantages as well as being efficacious in reducing evaporation.

In conclusion it should be emphasized that the object of the above calculations was to estimate the *relative* magnitudes of the losses due to evaporation and pouring at three different types of stations. The results are satisfactory in so far as they indicate that the measurements in the aggregate are not much affected by the routine employed. As quantitative estimates of actual losses they are subject to a wide margin of error, owing to the large number of assumptions made in arriving at them. It should be noted also that no account is taken of evaporation of water adhering to the exterior surface of the funnel. This loss would, however, be the same at the three types of station if they were equipped with gauges having similar funnels.

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